

Columbia University  
Bulletin of Information



BARNARD COLLEGE

ANNOUNCEMENT

1964-1965



BARNARD COLLEGE  
ARCHIVES

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1964-65

BARNARD COLLEGE  
Office of the Registrar

April 1964

CHANGES IN THE CATALOGUE ANNOUNCEMENTS FOR 1964-65

Chemistry 51, 55, 56, 58, and 63 as given in the Catalogue have been withdrawn and the following courses substituted:

Chemistry 51. Chemical Thermodynamics and Kinetics. 3 points. Group 2. The laws of thermodynamics and their application to chemical systems; kinetic molecular theory; rates of chemical reactions. Chemistry majors should take Course 57 in parallel.. Prerequisites: Course 8; Mathematics 15, 16; Physics 3-4. Professor Segal. Lec. MWF 10. (This course is the equivalent of old course 55, Physical Chemistry.)

Chemistry 52. Atomic and Molecular Structure. 3 points. Group 2. Introduction to quantum and statistical mechanics and chemical bonding. Prerequisite: Course 51. Professor Segal. Lec. MWF 10.

Chemistry 54. Electrochemistry and Electrolytes. 3 points. Group 6. Ionic substances and their investigation by electrochemical and optical methods; analytical processes. Chemistry majors should take Course 58 in parallel. Prerequisite: Course 51. Professor Gawer. Lec. TuTh 9:10-10:25.

Chemistry 57. Physical Chemistry Laboratory. 3 points. Group 0. Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry, and radiochemistry. Course 51 should be taken in parallel. Prerequisites: Course 8; Mathematics 15, 16, and Physics 3-4. Laboratory deposit, \$20. Professor Gawer. Lab MW 1:10-4 and if warranted by registration, TuTh 2:10-5.

Chemistry 58. Advanced Analytical Chemistry. 3 points. Group 0. Experiments illustrating the quantitative investigation of chemical systems and instrumental methods of analysis. Course 54 should be taken in parallel. Prerequisites: Courses 51 and 57. Laboratory deposit, \$20. Professor Gawer. Lab MW 1:10-4 and if warranted by registration, TuTh 2:10-5.

Chemistry 63. Advanced Laboratory Course. 2 or 3 points. Group 0. Experiments in synthetic organic or inorganic chemistry or on instrumental methods arranged to fit the needs of the individual student. Prerequisite: three years of college chemistry. Laboratory deposit, \$20. Professor Segal. Hours and credit to be arranged.

Chemistry 99 (99y) Will not be given.

English 3 (IV) Will be given by Mrs. Thaddeus. M 3:10-5 and a conference hour to be arranged.



Chemistry 51, 55, 56, 58, and 63 as given in the Catalogue and the following courses substituted:

Chemistry 51. Chemical Thermodynamics  
Group 2. The laws of thermodynamics  
chemical systems; kinetic molecular  
reactions. Chemistry majors should  
Prerequisites: Course 8; Mathematics  
Professor Segal. Lec. MW 10. (This  
of old course 55, Physical Chemistry.

Chemistry 52. Atomic and Molecular  
2. Introduction to quantum and statisti-  
cal bonding. Prerequisites: Course  
MW 10.

Chemistry 54. Electrochemistry and  
Group 6. Ionic substances and their  
methods; analytical  
Course 58 in part  
Lec. TuTh 9:15

Chemistry 57. Physical Chemistry Lab  
0. Experiments illustrating the phys-  
the study of liquids and gases, their  
phase equilibria, chemical kinetics,  
radiochemistry. Course 51 should be  
Prerequisites: Course 8; Mathematics I  
Laboratory deposit, \$20. Professor  
it warranted by registration, TuTh 2

Chemistry 59. Advanced Analytical  
0. Experiments illustrating the qua-  
chemical systems and instrumental me-  
54 should be taken in parallel. Pro-  
57. Laboratory deposit, \$20. Profe-  
and it warranted by registration, Tu

Chemistry 63. Advanced Laboratory  
Group 0. Experiments in synthetic  
or on instrumental methods arranged  
Prerequisites:  
credit to be arranged.

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Catalogue changes 1964-65

English 7, 8	Writing of poems and short stories. Instructor to be announced. Students are to see Mr. Pack for written permission to register for English 7.
English 44	Medieval Literature. English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation. Professor Ulanov. 3 points. T.Th 10:35-11:50. Group 8.
English 64.	Professor Hook will give the course. MWF 11
English 69	Will not be given
English 70	Will not be given
English 71	Will be given MWF at 12:10. Group 13.
English 79	To be given in the spring term as 79y
English 80	To be given in the Autumn term as 80x
English 85	Will be given by Professor Ulanov
English 86x	To be given in the spring term as 86
English 88	Changed to MWF 12:10. Group 13
English 98 (I)	Will not be given

English 19, 20; 21, 22; 2ly; 27, 28 may be taken parallel to A1, A2. With the written permission of the instructor, a freshman may elect a literature course in the spring term.

The fee per point for General Studies courses is \$45.

Fees for Graduate Faculties courses are \$60 per point and are payable unless exemption is obtained because the course is in the major field or by ruling of the Committee on Programs and Academic Standing.

Students are advised to consult the Registrar's bulletin board for additional catalogue changes that will be posted as they are received.

Religion W3302y	Will not be given
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ADDENDUM TO THE LIST OF CATALOGUE CHANGES DATED APRIL 1964

Anthropology 3	Will be taught by Professor Chowning
Anthropology 12	<u>Primitive Systems of Government.</u> 3 points. The methods by which law and order are maintained, and public decisions taken in societies of simple technology; stateless societies and primitive states. The political consequences of subjection to colonial rule and of incorporation in larger political institutions with institutions of western type. Counts toward the requirement in contemporary society. Tu Th 9:10-10:25. Group 6.
Anthropology G4332y	<u>Social Change in Africa.</u> 3 points. The changes taking place in contemporary Africa seen as essentially changes in social relationships. These will be examined in the context of different aspects of society -- family and kinship, economic, political and religious. Th 4:10-6:00.
Art History 1-2, studio	Tu 10:00-12:00, 3:00-5:00, Fri 1:00-3:00, 3:00-5:00
English 71	3 points
English 87	Will not be given 1964-65
German 35	Changed to 35y
Health Education 2	<u>The Development of the Self.</u> 1 point. Basic principles of motivation, psychological development and interpersonal relations in major life situations. Psychoanalytic concepts of the origin of self, the etiology and character of self-appraisal and its effects upon behavior, and the development and nature of the personality. Dr. Richard G. Abell. Th 1:10. Group 12.
Hygiene	Will not be given. Hygiene requirement withdrawn
Mathematics 56	Tu Th 10:35-11:50. Group 8
Mathematics 61	Tu Th 10:30-11:50. Group 8
Music W1109x-1110y	4 to 6 points
Music V1591x-1592y	Columbia University Orchestra. 2 points
Music V1593x-1594y	Columbia University Chorus. 2 points







Catalogue Changes Continued - 2

Painting R1011x-1012y

Section IV, 4 points. Wed 6:10-10:00 p.m.

Drawing R1001x-1002y

Section IV, 4 points. Wed 1-5 p.m.

Physics C1006y

Prerequisite: Mathematics 15x instead of  
C1105

Parallel: Mathematics 16y instead of  
C1106

Psychology 1x (1y)

Section IV, MWF 9:00 a.m. Group 11

All hyphenated religion courses are divisible

Religion W3214y

Delete the prerequisite for this course.

Religion V3201x

Section II, will be taught by Prof. Nahum  
M. Sarna

June 10, 1964















BARNARD COLLEGE

THE UNDERGRADUATE COLLEGE

OF LIBERAL ARTS

FOR WOMEN

OF

Columbia University

1964 - 1965

MORNINGSIDE HEIGHTS

NEW YORK, N. Y. 10027

BARNARD COLLEGE  
ARCHIVES

## COMMUNICATION WITH THE COLLEGE

The post office address is Barnard College, 606 West 120th Street, New York, N.Y. 10027. The telephone number is UNiversity 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College; gifts or bequests: the General Secretary

Admission to the freshman class or with advanced standing; information about financial aid for entering students; requests for catalogues: the Director of Admissions

Financial aid and loan funds for students in college: the Dean of Studies

Academic work of students: the Class Advisers

Health: the College Physician

Housing; student activities: the Director of College Activities

Opportunities for self-help; recommendations for employment: the Placement Office

Payment of college bills: the Bursar

Requests for transcripts; notice of withdrawal: the Registrar

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations



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# I. College Calendar

Sept.	15	Tuesday. Final payments due, Autumn Term.
Sept.	21	Monday, through Sept. 23, Wednesday. Deficiency examinations. Registration in person for Autumn Term.
Sept.	24	Thursday. Autumn Term, seventy-sixth year begins. Classes begin, 9 a.m. Convocation, 1 p.m.
Oct.	30	Friday. Last day for filing statement of candidacy for the degree in February 1965.
Nov.	3	Tuesday. Election Day. Holiday.
Nov.	20	Friday. Vocational Conference. Attendance required.
Nov.	24	Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
Nov.	26	Thursday, through Nov. 29, Sunday. Thanksgiving holidays.
Dec.	1	Tuesday. Required meetings for planning programs.
Dec.	19	Saturday, through January 3, 1965, Sunday. Christmas holidays. Residence halls closed.
Jan.	6	Wednesday, through January 8, Friday. Major examinations for February graduates.
Jan.	10	Sunday. Annual Commemoration Service in St. Paul's Chapel.
Jan.	15	Friday. Final payments due, Spring Term.
Jan.	18	Monday. Mid-year examinations begin.
Jan.	28	Thursday. Autumn Term ends.
Feb.	1	Monday and February 2, Tuesday. Registration in person for Spring Term. Last day for filing applications for financial aid.
Feb.	3	Wednesday. Spring Term begins. Classes begin, 9 a.m.
Feb.	22	Monday. Washington's Birthday. Holiday.
Feb.	26	Friday. Last day for filing statement of candidacy for the degree in June 1965.
Mar.	3	Wednesday, through March 5, Friday. Deficiency examinations for students absent from the January 1965 series.
Mar.	27	Saturday, through April 4, Sunday. Spring holidays.
Apr.	27	Tuesday. Required meetings for planning programs.
Apr.	28	Wednesday, through April 30, Friday. Major examinations for June and October graduates.
May	14	Friday. Last day for filing statement of candidacy for the degree in October 1965.
May	17	Monday. Final examinations begin.
May	27	Thursday. Spring Term ends.
May	30	Sunday. Baccalaureate Service.
June	1	Tuesday. Conferring of degrees.
July	5	Monday. Sixty-sixth Summer Session of Columbia University begins.
Aug.	13	Friday. Sixty-sixth Summer Session ends.
Sept.	23	Thursday. Autumn Term, seventy-seventh year begins. Classes begin 9 a.m. Convocation, 1 p.m.



SEPTEMBER, 1964

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

# CALENDAR

## FOR 1964-1965

OCTOBER, 1964

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY, 1965

S	M	T	W	T	F	S
		1	2	3	4	5
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JUNE, 1965

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11	12	13	14	15	16	17
18	19	20	21	22	23	24
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NOVEMBER, 1964

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22	23	24	25	26	27	28
29	30					

MARCH, 1965

S	M	T	W	T	F	S
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6	7	8	9	10	11	12
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20	21	22	23	24	25	26
27	28	29	30	31		

JULY, 1965

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3	4	5	6	7	8	9
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17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

DECEMBER, 1964

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

APRIL, 1965

S	M	T	W	T	F	S
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4	5	6	7	8	9	10
11	12	13	14	15	16	17
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25	26	27	28	29	30	

AUGUST, 1965

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22	23	24	25	26	27	28
29	30	31				

JANUARY, 1965

S	M	T	W	T	F	S
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31						

MAY, 1965

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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

SEPTEMBER, 1965

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	





## II. Organization

### TRUSTEES OF BARNARD COLLEGE FOR 1964

SAMUEL R. MILBANK, *Chairman*  
FRANCIS T. P. PLIMPTON, *Vice-Chairman*  
WALLACE S. JONES, *Vice-Chairman*  
MRS. FRANK ALTSCHUL, *Clerk*

MRS. LEIGHTON COLEMAN  
MRS. JOHN ELLIOTT, JR.  
MRS. WILLIAM T. GOSSETT  
ROBERT L. HOGUET, JR.  
ROBERT S. HUTCHINS  
PRESIDENT GRAYSON KIRK, *ex officio*  
WILLIAM H. MATHERS  
MISS ROSEMARY PARK  
MRS. OGDEN R. REID  
RICHARD RODGERS  
CHARLES E. SALTZMAN  
MRS. ARTHUR H. SULZBERGER  
RAWLEIGH WARNER, JR.  
MRS. FREDERICK J. WOODBRIDGE  
HENRY M. WRISTON  
MISS FRANCES K. MARLATT, *Alumnae Trustee*  
MRS. EDWARD J. PELZ, *Alumnae Trustee*  
MRS. WALT W. ROSTOW, *Alumnae Trustee*  
MRS. WILLIAM P. WHITE, *Alumnae Trustee*  
MRS. OGDEN REID, *Trustee Emeritus*

#### *Faculty Representatives to Meet with Trustees*

PROFESSOR JOHN A. KOUWENHOVEN  
PROFESSOR ELEANOR M. TILTON

# BARNARD COLLEGE

## THE FACULTY OF BARNARD COLLEGE

GRAYSON KIRK, 1952, President of the University

A.B. Miami; A.M., Clark; Ph.D., Wisconsin; LL.D.

ROSEMARY PARK, 1962, President of Barnard College and Dean in the University

A.B., Radcliffe; Ph.D., Cologne; LL.D.; Litt.D.; L.H.D.

HENRY A. BOORSE, 1937, Dean of the Faculty and Professor of Physics

B.S., United States Naval Academy; A.M., Ph.D., Columbia

HELEN PHELPS BAILEY, 1933, Dean of Studies and Associate Professor of French

A.B., Barnard; A.M., Ph.D., Columbia

BARBARA S. SCHMITTER, 1957, Associate Dean of Studies and Assistant Professor of Psychology

A.B., Nebraska; A.M., Columbia

GRAHAM ADAMS, JR., 1962, Visiting Assistant Professor of History

A.B., Williams; A.M., Ph.D., Columbia

LUCY P. MAIR, 1964, Virginia C. Gildersleeve Visiting Professor

M.A., Cambridge; Ph.D., London

VICTOR H. MIESEL, 1964, Visiting Assistant Professor of Art History

A.B., Wayne; A.M., Ph.D., Michigan

RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., A.M., Ph.D., Columbia

HELEN H. BACON, 1961, Associate Professor of Greek and Latin

A.B., Ph.D., Bryn Mawr

BERNARD BARBER, 1952, Professor of Sociology

A.B., A.M., Ph.D., Harvard

LUCENA J. BARTH, 1955, Assistant Professor of Zoology

A.B., A.M., Missouri; Ph.D., Columbia

HYMAN BASS, 1964, Associate Professor of Mathematics

A.B., Princeton; M.S., Ph.D., Chicago

JOSEPH GERARD BRENNAN, 1947, Professor of Philosophy

A.B., Boston College; A.M., Harvard; Ph.D., Columbia

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The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.



## THE FACULTY

- LE ROY C. BREUNIG, 1953, Professor of French  
A.B., DePauw; Ph.D., Cornell
- SIDNEY A. BURRELL, 1947, Associate Professor of History  
A.B., Chicago; Ph.D., Columbia
- MARIANNA BYRAM, 1926, Assistant Professor of Art History  
A.B., Barnard; A.M., Radcliffe
- DEMETRIOS CARALEY, 1961, Assistant Professor of Government  
A.B., Ph.D., Columbia
- ANN CHOWNING, 1958, Assistant Professor of Anthropology  
A.B., Bryn Mawr; A.M., Ph.D., Pennsylvania
- <sup>1</sup>WILLIAM A. CORPE, 1956, Associate Professor of Botany  
A.B., A.M., Wisconsin; Ph.D., Pennsylvania State
- PHEBE CRAMER, 1963, Assistant Professor of Psychology  
A.B., California; Ph.D., New York
- BARBARA M. CROSS, 1959 Assistant Professor of English  
A.B., Smith; A.M., Yale; Ph.D., Radcliffe
- ELIZABETH CZONICZER, 1952, Assistant Professor of French  
Absolut., Budapest; A.M., Chicago; Ph.D., Columbia
- MARGARITA U. DA CAL, 1943, Associate Professor of Spanish  
Bach. Instituto-Escuela de Madrid; A.M., Ph.D., Columbia
- HUBERT DORIS, 1957, Associate Professor of Music  
A.B., Harvard; A.M., Columbia
- PATRICIA L. DUDLEY, 1959, Assistant Professor of Zoology  
A.B., A.M., Colorado; Ph.D., Washington
- EUGENIO FLORIT, 1945, Professor of Spanish  
D. en D., Havana
- <sup>2</sup>RENÉE CLAIRE FOX, 1955, Associate Professor of Sociology  
A.B., Smith; Ph.D., Radcliffe
- ROBERT W. FULLER, 1963, Assistant Professor of Physics  
A.M., Ph.D., Princeton
- LAURA R. DE GARCÍA-LORCA, 1948, Associate Professor of Spanish  
Lic. en F., Madrid; Ph.D., Columbia
- RENÉE GEEN, 1956, Assistant Professor of French  
A.B., Brooklyn; A.M., Wisconsin; Ph.D., Columbia

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<sup>1</sup> Joint appointment with Columbia.

<sup>2</sup> Absent on leave, 1964-65.

## BARNARD COLLEGE

<sup>2</sup>MARION HAMILTON GILLIM, 1952, Professor of Economics  
A.B., Mount Holyoke; A.M., Ph.D., Columbia

TATIANA GREENE, 1946, Assistant Professor of French  
Candid. en Droit, Brussels; A.M., Ph.D., Columbia

W. CABELL GREET, 1926, McIntosh Professor of English  
A.B., University of the South; A.M., Ph.D., Columbia; Litt.D.

VIRGINIA D. HARRINGTON, 1942, Associate Professor of History  
A.B., Barnard; A.M., Ph.D., Columbia

WILLIAM A. HAVILAND, 1963, Assistant Professor of Anthropology  
A.B., A.M., Pennsylvania

JULIUS S. HELD, 1937, Professor of Art History  
Ph.D., Freiburg

LUCYLE HOOK, 1949, Professor of English  
A.B., B.S., Texas Woman's University; A.M., Columbia;  
Ph.D., New York

URSULA L. JARVIS, 1956, Assistant Professor of German  
A.B., Barnard; A.M., Ph.D., Columbia

PETER H. JUVILER, 1964, Associate Professor of Government  
B.E., M.E., Yale; A.M., Ph.D., Columbia

MICHAEL G. KENNEDY, 1961, Assistant Professor of Psychology  
B.A., (Cantab.); Ph.D., Columbia

EDWARD J. KING, 1946, Professor of Chemistry  
A.B., State University of Iowa; Ph.D., Yale

RUTH MONTGOMERY KIVETTE, 1952, Assistant Professor of English  
A.B., Barnard; A.M., Ph.D., Columbia; B.D., Union Theological  
Seminary

MARCUS KLEIN, 1952, Assistant Professor of English  
A.B., Western Reserve; A.M., Ph.D., Columbia

MIRRA KOMAROVSKY, 1934, Professor of Sociology  
A.B., Barnard; A.M., Ph.D., Columbia

<sup>3</sup>JOHN KOUWENHOVEN, 1946, Professor of English  
A.B., Wesleyan; A.M., Ph.D., Columbia

<sup>1</sup>, <sup>2</sup>POLYKARP KUSCH, 1962, Professor of Physics  
B.S., Case Institute; M.S., Ph.D., Illinois; Nobel Laureatè; Sc.D.

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<sup>1</sup> Joint appointment with Columbia.

<sup>2</sup> Absent on leave, 1964-65.

<sup>3</sup> Absent on leave, Autumn Term.



## THE FACULTY

MARION LAWRENCE, 1929, Professor of Art History  
A.B., Bryn Mawr.; A.M., Ph.D., Radcliffe

ROBERT LEKACHMAN, 1947, Professor of Economics  
A.B., Ph.D., Columbia

LYDIA H. LENAGHAN, 1962, Assistant Professor of Greek and Latin  
A.B., Barnard; A.M., Ph.D., Bryn Mawr

<sup>1</sup>EDGAR R. LORCH, 1937, Professor of Mathematics  
A.B., Ph.D., Columbia

MARISTELLA DE PANIZZA LORCH, 1951, Associate Professor of Italian  
Dott. in Lett. e Filos, Rome

<sup>3</sup>OTTO LUENING, 1944, Professor of Music on the Joline Foundation  
Royal Academy of Music, Munich; University of Zurich

<sup>1</sup>JANE G. MAHLER, 1935, Associate Professor of Art History  
A.B., Wisconsin; A.M., Ph.D., Columbia

JOHN MESKILL, 1960, Assistant Professor of Chinese and Japanese  
A.B., Harvard; Ph.D., Columbia

GLADYS MEYER, 1948, Associate Professor of Sociology  
A.B., Wellesley; Ph.D., Columbia

<sup>1</sup>JOHN A. MOORE, 1943, Professor of Zoology  
A.B., A.M., Ph.D., Columbia

PHOEBE MORRISON, 1952, Professor of Government  
A.B., Vassar; LL.B., George Washington; J.S.D., Yale

JOANN RYAN MORSE, 1957, Assistant Professor of English  
A.B., Vassar; A.M., Yale

MARY MOTHERSILL, 1963, Professor of Philosophy  
B.A., Toronto; A.M., Ph.D., Radcliffe

<sup>2</sup>URSULA M. NIEBUHR, 1940, Associate Professor of Religion  
B.A., M.A., Oxford; S.T.M., Union Theological Seminary

RICHARD A. NORMAN, 1954, Associate Professor of English  
A.B., George Washington; A.M., Ph.D., Columbia

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<sup>1</sup> Joint appointment with Columbia.

<sup>2</sup> Absent on leave, 1964-65.

<sup>3</sup> Absent on leave, Spring Term.

## BARNARD COLLEGE

<sup>2</sup>BARBARA NOVAK, 1958, Assistant Professor of Art History  
A.B., Barnard; A.M., Ph.D., Radcliffe

<sup>3</sup>REMINGTON P. PATTERSON, 1955, Associate Professor of English  
A.B., A.M., Ph.D., Yale

<sup>3</sup>THOMAS P. PEARDON, 1923, Professor of Government  
B.A., British Columbia; A.M., Clark; Ph.D., Columbia

MARION R. PHILIPS, 1945-55; 1958, Assistant Professor of Physical  
Education  
A.B., Hunter; A.M., Columbia

ALAN C. PURVES, 1961, Assistant Professor of English  
A.B., Harvard; A.M., Ph.D., Columbia

BASIL RAUCH, 1941, Professor of History  
A.B., Notre Dame; Ph.D., Columbia

DONALD D. RITCHIE, 1948, Professor of Botany  
A.B., B.S., Furman; A.M., Ph.D., North Carolina

DAVID A. ROBERTSON, JR., 1940, Professor of English  
A.B., A.M., Ph.D., Princeton

ELEANOR ROSENBERG, 1953, Professor of English  
A.B., Barnard; A.M., Ph.D., Columbia

GERTRUD M. SAKRAWA, 1952, Assistant Professor of German  
A.M., Columbia; Ph.D., Vienna; Ph.D., Columbia

RAYMOND J. SAULNIER, 1938, Professor of Economics  
B.S., Middlebury; A.M., Tufts; Ph.D., Columbia

HENRY S. SHARP, 1941, Professor of Geology  
A.B., Cornell; A.M., Ph.D., Columbia

LOUISE G. STABENAU, 1925, Associate Professor of German  
Abitur, Bremen; A.M., Columbia

<sup>1</sup>HAROLD STAHLER, 1957, Associate Professor of Religion  
A.B., Dartmouth; B.D., Union Theological Seminary;  
Ph.D., Cambridge

EMMA DIETZ STECHER, 1945, Professor of Chemistry  
A.B., Barnard; A.M., Columbia; Ph.D., Bryn Mawr

MARION STRENG, 1930, Associate Professor of Physical Education  
B.S., Wisconsin; A.M., Columbia

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<sup>1</sup> Joint appointment with Columbia.

<sup>2</sup> Absent on leave, 1964-65.

<sup>3</sup> Absent on leave, Spring Term.

## THE FACULTY

<sup>1</sup>WALTER C. STRODT, 1962, Professor of Mathematics  
A.B., A.M., Ph.D., Columbia

HOWARD M. TEICHMANN, 1946, Adjunct Associate Professor of English  
A.B., Wisconsin

ELEANOR M. TILTON, 1950, Professor of English  
A.B., Mount Holyoke; A.M., Boston; Ph.D., Columbia

BARRY ULANOV, 1951, Associate Professor of English  
A.B., Ph.D., Columbia

FREDERICK E. WARBURTON, 1963, Assistant Professor of Zoology  
B.Sc., M.Sc., Ph.D., McGill

CHILTON WILLIAMSON, 1942, Professor of History  
A.B., A.M., Ph.D., Columbia

GEORGE WOODBRIDGE, 1960, Assistant Professor of History  
A.B., A.M., Columbia; Ph.D., Wisconsin

ELIZABETH P. WYCKOFF, 1963, Assistant Professor of Greek and Latin  
A.B., Ph.D., Bryn Mawr; B.A., Cambridge

FERN W. YATES, 1927-31; 1935, Associate Professor of Physical Education  
A.B., Barnard; A.M., Columbia

RICHARD YOUTZ, 1940, Professor of Psychology  
A.B., Carleton, Ph.D., Yale

LEONARD ZOBLER, 1955, Associate Professor of Geography  
B.S., M.S., State College of Washington; Ph.D., Columbia

FORREST L. ABBOTT, 1953, Treasurer and Controller  
B.S., Southwest Missouri State Teachers; A.M., Ed.D., Columbia

ESTHER GREENE, 1944, Librarian  
A.B., Grinnell; B.S., Simmons

HELEN LAW, 1952, Registrar and Secretary to the Faculty  
A.B., College of New Rochelle

MARJORY J. NELSON, 1948, College Physician  
A.B., Barnard; M.D., Cornell

JEAN T. PALMER, 1946, General Secretary  
A.B., Bryn Mawr

SARAH KATHARINE THOMSON, 1955, Reference Librarian  
A.B., Agnes Scott; M.S., Columbia

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<sup>1</sup> Joint appointment with Columbia.



## BARNARD COLLEGE

### FACULTY EMERITI

VIRGINIA C. GILDERSLEEVE, 1900-1947, Dean Emeritus  
Ph.D., LL.D., Litt.D., L.H.D.

MARGUERITE MESPOULET, 1934-1947, Professor Emeritus of French  
Agréégée de l'Université

MINOR W. LATHAM, 1914-1948, Professor Emeritus of English  
Ph.D.

WILLIAM HALLER, 1909-1950, Professor Emeritus of English  
Ph.D., L.H.D.

FLORENCE DE LOISELLE LOWTHER, 1914-1950, Professor Emeritus of  
Zoology, Ph.D.

ELIZABETH FAULKNER BAKER, 1919-1952, Professor Emeritus of  
Economics, Ph.D.

HUGH WILEY PUCKETT, 1916-1953, Professor Emeritus of German  
Ph.D.

HELEN R. DOWNES, 1933-1960, Professor Emeritus of Chemistry  
Ph.D.

AMELIA A. DE DEL RÍO, 1930-1962, Professor Emeritus of Spanish  
Ph.D.

MILLICENT C. MC INTOSH, 1947-1962, President Emeritus  
Ph.D., LL.D., Litt.D., L.H.D.

### OTHER OFFICERS OF INSTRUCTION

EDITH ABBOTT, 1964, Instructor in Physical Education  
A.B., Trenton State

RICHARD G. ABELL, 1962, Lecturer in Mental Hygiene  
A.B., Swarthmore; A.M., Ph.D., M.D., Pennsylvania

NATHALIE BABEL, 1961, Instructor in French  
B. ès L., Brussels

MARY JANE BAKER, 1963, Assistant in Chemistry  
B.S., Pembroke

ANNETTE K. BAXTER, 1952, Associate in History  
A.B., Barnard; A.M., Smith; A.M., Radcliffe; Ph.D., Brown

## THE FACULTY

- MARY ELLEN BLUMENFELD, 1962, Studio Assistant in Art History  
B.F.A., Boston
- HENRY W. BOOKOUT, JR., 1964, Instructor in Religion  
A.B., Harvard; S.T.B., General Theological Seminary
- BRIGITTE L. BRADLEY, 1962, Instructor in German  
A.B., William and Mary; D. d'Université, Strassbourg;  
A.M., Columbia
- RONNIE BRANCAZIO, 1963, Assistant in Psychology  
A.B., Barnard
- DOMNA CALLIMANOPULOS, 1962, Lecturer in French  
A.B., Wellesley; A.M., Columbia
- HELEN M. CARLSON, 1942, Associate in French  
A.B., Grinnell; A.M., Columbia
- PATRICIA CARPENTER, 1961, Instructor in Music  
A.B., California
- RUTH E. CARPENTER, 1963, Lecturer in English  
A.B., Bryn Mawr
- VERA CARPOVICH, 1962, Lecturer in Russian  
B.S., Columbia
- PHYLLIS J. CASSIDY, 1962, Assistant in Mathematics  
B.S., Columbia
- ELIZABETH LOUISE CAUGHRAN, 1956, Associate in English  
A.B., Russell Sage; A.M., Columbia
- EMILE C. CHI, 1963, Assistant in Mathematics  
A.B., Harvard
- EDWARD S. COBB, 1963, Assistant in Psychology  
A.B., A.M., Columbia
- ELIZABETH CONSTANTINIDES, 1959, Instructor in Greek and Latin  
A.B., Barnard; A.M., Columbia
- HARRY RICHARD CORNELL, 1963, Lecturer in Government  
A.B., Ohio State; M.I.A., Columbia
- TANIA M. COSMAN, 1962, Lecturer in Russian  
A.B., A.M., Middlebury
- MARJORIE HOUSEPIAN DOBKIN, 1957-59; 1960, Lecturer in English  
A.B., Barnard
- LOIS J. ENGELSON, 1962, Assistant in Art History  
A.B., Barnard

## BARNARD COLLEGE

- SARAH C. FAUNCE, 1961, Lecturer in Art History  
A.B., Wellesley; A.M., Washington
- ORA FRISHBERG, 1964, Assistant in Music  
A.B., Barnard; A.M., Columbia
- VICTOR FUENTES, 1961, Instructor in Spanish  
A.M., New York University
- SERGE GAVRONSKY, 1960, Instructor in French  
A.B., A.M., Columbia
- SANDRA GENTER, 1961, Instructor in Physical Education  
A.B., Wisconsin
- AMY GOLDBLATT, 1963, Assistant in Psychology  
A.B., Barnard
- FELICE W. GORDIS, 1963, Assistant in Psychology  
A.B., Barnard
- HELMUT GUTMANN, 1960, Instructor in German  
Abitur, Fulda; A.M., Columbia
- DANIELLE HAASE-DUBOSC, 1962, Lecturer in French  
A.B., Barnard; A.M., Columbia
- MARGARET HANCE, 1955, Assistant in English  
A.B., Wittenberg
- VIRGINIA P. HELD, 1963, Lecturer in Philosophy  
A.B., Barnard
- ALICE H. HENKIN, 1963, Lecturer in Government  
A.B., Byrn Mawr; LL.B., Yale
- ANNETTE H. HERVEY, 1963, Lecturer in Botany  
A.B., Barnard; A.M., Smith; Ph.D., Columbia
- KENNETH H. JANES, 1961, Lecturer in English and  
Director of the Minor Latham Playhouse
- LOUISE JEFFERSON, 1961, Instructor in French  
A.B., Hunter; A.M., Illinois
- SHIRLEY B. JOHNSON, 1962, Instructor in Economics  
A.B., Radcliffe; M.A., Edinburgh
- MIREILLE JOHNSTON, 1963, Lecturer in French  
L. ès L., Dip. d'Et. Sup., Aix-Marseille



## THE FACULTY

- LYDIA W. KESICH, 1959, Instructor in Russian  
A.B., Vassar; A.M., Columbia
- GRACE W. KING, 1960, Lecturer in Chemistry  
A.B., Maine; Ph.D., Yale
- SVETLANA KLUGE, 1961-63; 1964, Lecturer in History  
A.B., Barnard; A.M., Columbia
- INGE RUTH LEEDS, 1963, Lecturer in Sociology  
A.B., Reed; A.M., Columbia
- ROLF A. LEIBINGER, 1963, Lecturer in German  
A.B., Hunter; A.M., Columbia
- NAOMI LOEB LIPMAN, 1961, Lecturer in English  
A.B., Barnard; A.M., Columbia
- PETER F. MAC NEILAGE, 1961, Lecturer in Psychology  
B.A., M.A., Canterbury; Ph.D., McGill
- ROBERT J. MANASSE, 1963, Assistant in Botany  
A.B., A.M., Columbia
- KATHY MARTINOT, 1963, Assistant in Chemistry  
A.B., Barnard
- EDITH G. MASON, 1956, Associate in Physical Education  
B.S., Winthrop; M.S., Louisiana State
- BARBARA MATES, 1962, Lecturer in Psychology  
A.B., A.M., Brooklyn
- BATYA MAX, 1963, Assistant in Psychology  
A.B., Barnard
- JOSEPHINE MAYER, 1956, Associate in Education and  
Director of the Education Program  
B.S., A.M., Columbia
- MARIAN B. MEYERS, 1963, Lecturer in Chemistry  
A.B., Barnard; M.S., Maryland
- LYNDA MILLER, 1964, Lecturer in Government  
A.B., Radcliffe; A.M., Columbia
- STANLEY MOORE, 1960, Associate in Philosophy  
A.B., Ph.D., California
- NATHALIE S. NABOKOFF, 1961, Lecturer in Russian
- ARNOLD P. NERENBERG, 1963, Assistant in Psychology  
A.B., Hofstra

## BARNARD COLLEGE

ELEANOR L. NOBACK, 1961, Assistant in Botany  
A.B., Oberlin; A.M., Western Reserve

HERMINE OBERFEST, 1961, Instructor in French  
A.B., Hunter; A.M., Columbia; B. ès L., Toulouse

ROBERT PACK, 1957, Associate in English  
A.B., Dartmouth; A.M., Columbia

ANNE LAKE PRESCOTT, 1959-62; 1963, Lecturer in English  
A.B., Barnard; A.M., Columbia

KATHLEEN RIORDAN, 1959, Assistant in Psychology  
A.B., Barnard

ROBERT J. ROGERS, 1961, Lecturer in Psychology  
B.S., Columbia

JEANETTE SCHLOTTMANN ROOSEVELT, 1951-58; 1962, Associate in Physical  
Education  
B.S., A.M., Texas State College for Women

PATRICIA SANBORN, 1964, Lecturer in Philosophy  
A.B., Mt. Holyoke; A.M., Columbia

BERNICE SEGAL, 1958, Lecturer in Chemistry  
A.B., Radcliffe; Ph.D., Columbia

FEDERICO SERRA-LIMA, 1963, Lecturer in Spanish  
B.S., Columbia

MIRELLA D'AMBROSIO DE SERVODIDIO, 1964, Instructor in Spanish  
A.B., Barnard; A.M., Columbia

MARY ELIZABETH SMITH, 1964, Assistant in English  
A.B., Barnard

CATHARINE R. STIMPSON, 1963, Lecturer in English  
A.B., Byrn Mawr; B.A., Cambridge

ELLEN TERRY, 1962, Lecturer in English and Technical Director,  
Minor Latham Playhouse  
A.B., Denver; M.F.A., Yale

PATRICIA TERRY, 1958, Lecturer in French  
A.B., Wellesley; A.M., Ph.D., Columbia

JANICE FARRAR THADDEUS, 1956, Instructor in English  
A.B., Barnard; A.M., Columbia

ZOYA A. TRIFUNOVICH, 1959, Instructor in Russian  
B.S., A.M., Columbia

## OFFICERS OF ADMINISTRATION

PEARL VOGEL, 1964, Assistant in Economics  
A.B., Barnard

PATRICIA WHALEN, 1963, Assistant in Geology  
A.B., Hunter

## OFFICERS OF ADMINISTRATION

ROSEMARY PARK, Ph.D., LL.D., Litt.D., L.H.D.  
President of Barnard College and Dean in the University

HENRY A. BOORSE, Ph.D.  
Dean of the Faculty and Professor of Physics

HELEN PHELPS BAILEY, Ph.D.  
Dean of Studies and Associate Professor of French

BARBARA S. SCHMITTER, A.M.  
Associate Dean of Studies and Assistant Professor of Psychology

JEAN T. PALMER, A.B. General Secretary

FORREST L. ABBOTT, Ed.D. Treasurer and Controller

### OFFICE OF THE PRESIDENT

DOROTHY H. HEFFERLINE, A.M. Executive Secretary

### OFFICE OF THE DEANS

LOUISE G. STABENAU, A.M. Adviser to the Class of 1967

MARIANNA BYRAM, A.M. Adviser to the Class of 1968

DOROTHY E. FOX, A.B.  
Adviser to Foreign Students and Assistant to the Dean of the Faculty

### ADMISSIONS

HELEN M. MC CANN, A.B. Director

MARGARET DYKES DAYTON, A.M. Associate Director

### ASSOCIATE ALUMNAE

MARY A. BLISS, A.B. Executive Secretary

### BURSAR

FRANCES A. BARRY, M.S.



# BARNARD COLLEGE

## CHAPLAIN OF THE UNIVERSITY

JOHN M. KRUMM, Ph.D., B.D.

## COLLEGE ACTIVITIES

MADELINE D. JENKINS, R.N., A.M. Director

## DEVELOPMENT OFFICE

JEAN T. PALMER, A.B. Director

DOROTHY COYNE WEINBERGER, A.B. Director, Barnard Fund

JEAN P. NORTH, A.B. Secretary for Parents' Program

## FOOD SERVICES

ELEANOR R. SMITH, B.S. Director

## HEALTH

MARJORY J. NELSON, M.D. College Physician

RICHARD G. ABELL, M.D. Consulting Psychiatrist

A. LOUISE BRUSH, M.D. Consulting Psychiatrist

THEODORE J. JACOBS, M.D. Consulting Psychiatrist

LILO R. GROTHE, M.S., Ph.D. Psychiatric Counselor

LELA ANDERSON, R.N. Nurse

BEATRICE G. TUCKER, R.N. Nurse

CHARLES L. GILBERT, M.D. University Medical Officer

## LIBRARY

ESTHER GREENE, A.B., B.S. Librarian

SARAH KATHARINE THOMSON, M.S. Reference Librarian

EDNA C. LAW, A.M., M.S. Circulation Librarian

NATALIE SONEVYTSKY, M.S. Assistant Reference Librarian

MARY J. KELLY, M.S. Order Librarian

MYROSLAVA T. ZNAYENKO, M.S. Reserve Librarian

PATRICIA K. BALLOU, A.B., B.S. Assistant Reference and  
Circulation Librarian

## MAINTENANCE AND OPERATION

JOHN KIESSLING Manager

# OFFICERS OF ADMINISTRATION

## PLACEMENT

ETHEL S. PALEY, A.B.	Director
LEONORE POCKMAN, A. B.	Assistant Director

## PUBLIC RELATIONS

LILA ROSENBLUM, A. B.	Director
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## PURCHASING

MARY BANE	Manager
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## REGISTRAR

HELEN LAW, A.B.	Registrar and Secretary to the Faculty
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## RESIDENCE

HARRIET P. VAN SICKLE, A.B.	Director
BARBARA PAGE, A.B.	Assistant Director
BLANCHE LAWTON, A.B.	Assistant Director

### III. An Introduction to the College

#### BARNARD'S HISTORY

Barnard College was among the pioneers in the crusade, waged so ardently in the late nineteenth century, to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in the royal charter granted by George II in 1754 to the Governors of the College of the Province of New York, creating them a Body Corporate to erect and maintain King's College "for the Instruction and Education of Youth in the Learned Languages and Liberal Arts and Sciences." The Revolutionary War interrupted its active work when its buildings were requisitioned by the Continental Armies, but in 1784 it was re-opened as Columbia College. In 1896 it was designated a university, and in 1912 its title was legally changed to Columbia University in the City of New York.

Barnard College had its inception in an idea, proposed in 1879 to the Trustees of Columbia by its tenth president, Frederick A. P. Barnard. It was his conviction that "in the interest of society the mental culture of women should be not inferior in character to that of men," and that young women should, therefore, be admitted to Columbia College. This thought which "failed to attract the serious attention of the Trustees," was, nevertheless, rigorously developed by President Barnard, and in 1883 a petition signed by over a thousand citizens of New York culminated in the inauguration of the "Collegiate Course for Women." Women who passed "a very strict entrance examination" were authorized to follow a prescribed course, but were left "entirely free as to where or how to carry on [their] studies, whether in some school, private or public, or at home, or under the auspices or direction of any association interested in [their] welfare and advancement." "Suitable academic honors and distinctions" were awarded to those who on examination were found to have pursued such courses with success. This system was destined to please no one, neither the young women whose search for instruction was made so difficult, nor Columbia College whose degree could thus be conferred on the strength of examinations only. Six years later when Certain Friends of the Higher Education of Women presented still another proposal to Columbia's Trustees, cooperation was obtained for the establishment of an affiliated college for women. A provisional charter was granted by the State of New York, promise of funds for the first four years was secured, and its name, in honor of its most prophetic and persistent advocate, was chosen.



## AN INTRODUCTION TO THE COLLEGE

In October, 1889, the first class of Barnard College met in a rented "brownstone" house at 343 Madison Avenue with fourteen students enrolled in the School of Arts and twenty-two students in science, who, lacking the entrance requirements in Greek, were known as "specials." Six members of Columbia's staff gave instruction in prescribed subjects: English, French or German, Greek, Latin, and mathematics. A fellow of the University of Pennsylvania, Dr. Emily Gregory, volunteered her services as botanist, and Columbia's sanction of this role was soon bestowed by her appointment as its first woman lecturer.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 it was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean; it was responsible for its own endowment and plant; it shared the instruction, the library, and the degrees of a university.

### BARNARD TODAY

Barnard today presents rewarding contrast to the pioneer days. The teaching staff of six has grown to more than 200 men and women, some of them members of the University Faculties and some coming to the classrooms from the world of literature, the theatre, and the arts. From the original fourteen matriculated students, enrollment has increased to over 1500; since 1893 Columbia has awarded its degree to 13,348 Barnard students. Pledges of support for the first college generation have expanded to current endowment funds of \$11,700,000.

Within the University Barnard's corporate identity is maintained as an independent college for women. The curriculum offers the undergraduate opportunity to cultivate the liberal arts and sciences, to explore her cultural heritage, to discover and develop her capacity for intellectual adventure, and to establish habits of thought whereby she may utilize her knowledge in all facets of her future life.

Specific requirements for the degree are designed to give some comprehension of the roots of our civilization, and an awareness of the diverse areas of human thought and their interrelationship: courses in humanities enlarge the student's contact with literature and such fields as philosophy, religion, music and fine arts; a year's work in history is required as well as courses which deal with some phase of contemporary society; acquaintance with the ideas and methods of both physical and biological science is considered essential for an informed person in the modern world; finally, competence in at least one foreign

## BARNARD COLLEGE

language, to serve as an instrument for understanding and evaluating the achievements of other nationalities and as a basis for communication with peoples whose history and traditions may differ from our own. This comprises the basic curriculum of each student. Assistance in planning her individual course of study is given by her class adviser, a member of the teaching staff who supervises the work of the freshman and sophomore years.

At the end of this period each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and all other phases of the college work. A major is offered by every department and interdepartmental majors may be requested in certain interrelated fields.

Classes vary in size. Language classes are small as are other courses in which student participation is important. All introductory courses and classes taught primarily by the lecture method are divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with a wide variety of modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in the research projects of members of the Faculty. Some undergraduate courses are held with Columbia College and the Departments of Greek and Latin, Italian, Mathematics, Music, Physics, and Religion are conducted jointly with the University. Graduate courses in the University are also open to qualified upper classmen.

### THE CAMPUS

The campus now occupies four acres of land adjacent to Columbia between 116th and 120th Streets. The residence halls, Brooks and Hewitt, and Helen Reid Hall which opened in the autumn of 1961, face an open quadrangle. Milbank Hall at the northern end of the campus contains administrative offices and classrooms, the laboratories and libraries of the natural sciences, a greenhouse and an animal house for the use of botany and zoology students, penthouse studios and practice rooms for music, and the Minor Latham Drama Workshop, where drama students and dramatics groups may use the equipment of a modern theatre. The French, German, and Spanish Departments in Milbank Hall have social and reading rooms, furnished by friends of the College with valuable paintings, music records, and books. In Barnard Hall are the gymnasium, the swimming pool and dance studios, English seminar and classrooms, a spacious social center known as the James Room, and the Annex with a lounge and snack bar and quarters for student organizations.



## AN INTRODUCTION TO THE COLLEGE

Adele Lehman Hall, a five-story building containing the Wollman Library and classrooms, was opened in the autumn of 1959. The library was designed to provide for an expanding collection of both book materials and services, thus making available opportunities for independent work in advanced courses. It has a growing record collection with ample listening facilities, as well as an audio-visual studio and control room for the recording of tapes and for the use of other audio-visual equipment. The print room offers facilities for the study of photographs and art reproductions. Carrels are provided for individual study, a seminar room for class use of library materials, and small rooms for typing and for informal student discussion. The open shelf arrangement, occupying three and one half floors, has a capacity of 150,000 volumes, and Barnard students have access also to the over 3,000,000 volumes in the University libraries. Offices and seminars of the social science departments and classrooms occupy the top floor. A thirty booth language laboratory on the ground floor is utilized by all language departments and by students of English speech.

### STUDENT LIFE

Barnard's student population is cosmopolitan in nature. Two thirds of its students live within commuting distance; the remaining third come from nearly every state in the Union and some twenty-five foreign countries. All represent diversity in background and training, and mingling of economic, regional, and cultural strains which find expression in the life of the campus.

The Undergraduate Association, of which all students are members, sponsors extra-curricular activities reflecting the current interests of the entire group: the college newspaper, the literary magazine, dramatics clubs, political and religious clubs, the pre-medical club, and clubs representing many departmental fields. Students from Barnard and Columbia jointly plan the social program of the two colleges, which invites membership in the University Chorus and Orchestra, Barnard's Gilbert and Sullivan Society, and the staff of the University radio station.

The freshman and sophomore festival, Greek Games, is presented in the spring. Themes from classical mythology are portrayed in original dance, music and verse, and an athletic contest is climaxed by a chariot race in which class teams of four "horses" compete in exciting style.

In the college community the Undergraduate Association takes wide responsibility and its members serve on important Faculty-Student committees. All students are automatically under the jurisdiction of



## BARNARD COLLEGE

the Honor Code, administered by the Honor Board of the Association, whereby a high standard of honor in examinations and all other phases of college life is maintained. Students are expected to behave at all times in a manner which will reflect favorably upon themselves and the College.

Religious organizations and activities, with headquarters on the Columbia campus in Earl Hall, are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of contemporary religious and philosophical thought by faculty and guest speakers and students. The devotional life of College and University is centered in St. Paul's Chapel, where week-day and Sunday services are held at which attendance is voluntary. Through the cooperation of the Chaplain and counselors of various faiths a unity of religious life is secured within the University, while within each faith its own traditions are maintained.

The Athletic Association sponsors many campus activities, such as tennis, basket-ball, water ballet, fencing, and modern dance. Intercollegiate Sports Days held throughout the year enable students to participate in athletic events with other colleges. In 1933 the Barnard Camp, twenty acres of wooded land in Westchester County, was purchased by the alumnae, providing an accessible site for recreation during country week-ends.

### NEW YORK IS BARNARD'S LABORATORY

Fifty years ago Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan laboratory.

## IV. Admission

Since entering classes are limited in size, admission to Barnard College is on a selective basis. The Committee on Admissions endeavors to choose candidates who seem most receptive to the discipline and challenge of a liberal arts education. Each applicant is considered in the light of her past performance, the qualities of mind and spirit which insure her growth as an individual, and her ability to contribute to the growth of those with whom she will associate in college and throughout her adult life.

The College believes it is also desirable for the student body to represent a stimulating variety of schools, both public and independent, from all parts of the United States and from abroad.

Students who wish to discuss their plans with a member of the Admissions staff may request an interview at the College in the fall of their senior year, or in their junior year except during the period between March 1 and May 1. Whenever it is possible the College will arrange interviews with alumnae for those students who are unable to visit the campus.

### ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before January 15 of the year of entrance. It is advisable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A non-refundable fee of \$15 must accompany each application.

Students are admitted to the freshman class in September. They must be at least fifteen years of age, and should present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview at the College.
- 2) Evidence of sound health, to be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

## BARNARD COLLEGE

Candidates for admission must offer a college preparatory program from an approved secondary school or should have equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree, and should include four years of work in English, three years in one foreign language and two in another, and college preparatory mathematics studied for two years. The remainder of the course should consist of work in history, science, mathematics, music, art, or additional work in language. For pre-medical students advanced work in science, mathematics and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Scholastic Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) history, science, or mathematics. The Scholastic Aptitude Test should be taken in December or January of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) should be taken in December or January of the senior year. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. If the Scholastic Aptitude Test is taken for guidance purposes in the junior year, the scores should be reported to the College.

### EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, has agreed to take action in the fall of the senior year on the applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this plan should signify their intention when they request application papers. They must be certified by their school as having filed only one application.

Single-choice candidates for Barnard admission should send their application to the Office of Admissions, Barnard College, New York, N.Y. 10027, before October 15 of the senior year. Applications must be accompanied by the \$15 application fee.

Late in November Barnard will send to single-choice applicants letters of admission or rejection, or, in doubtful cases, postponement of decision until the customary date in the spring. Each applicant will be



considered on the basis of (1) the recommendation of her school principal or counselor; (2) her three-year record at school; and (3) the results of the required College Board Scholastic Aptitude Test and the Scholastic Achievement Tests taken in her junior year.

The successful candidate will be expected to complete her senior year satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She must agree to pay to Barnard in January, a deposit of \$100 if she is to be a non-resident student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, with the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Candidates on whose credentials favorable action is not taken may file applications at other colleges after receiving their notification from Barnard.

### THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1964-65;

Saturday, December 5, 1964

Saturday, January 9, 1965

Saturday, March 6, 1965

Saturday, May 1, 1965

Wednesday, July 14, 1965

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Box 1025, Berkeley, California 94701.

To facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Berkeley, California, for candidates outside the United States, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is

## BARNARD COLLEGE

four weeks before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Berkeley later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone.....	\$ 5.00
One, two, or three Achievement Tests.....	7.50

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission. Candidates will not receive reports of their tests from the Board.

### ADMISSION WITH ADVANCED PLACEMENT

Students who have completed advanced work in secondary school and who present satisfactory scores on the Advanced Placement Tests of the College Entrance Examination Board may be placed in courses above the level of the freshman year, at the discretion of the departments concerned.

On recommendation of the Barnard departments concerned, students with scores of 4 or better on the College Entrance Examination Board Advanced Placement Tests may be given up to 12 points of credit for advanced work done in high school.

### ADMISSION TO ADVANCED STANDING

Transfer students are admitted in September and in February. Candidates should present a strong record of not less than one year's work at an accredited college, or foreign university or institution of equivalent grade. In general, credit is given for courses taken at another college which are similar in content to those offered at Barnard. (See also page 36.)

The student should submit with her formal application the following credentials: her secondary school record; a recommendation from her principal and her college dean or class adviser; a complete and official transcript of her college work and a copy of the college catalogue in which the courses she has taken are clearly marked; the results of the College Entrance Examination Board tests. A candidate will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college



work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before May 15 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the Committee on Admissions by September 15; otherwise, the student may be asked to postpone registration until after classes begin, thereby incurring an additional fee of \$15 for lateness.

Seniors who are degree candidates of other colleges may apply for permission to complete their requirements at Barnard. Each applicant must present satisfactory college records and letters of approval from her Dean and her major adviser, and agree to comply with all Barnard regulations concerning attendance and course examinations.

## ADMISSION OF FOREIGN STUDENTS

The College is interested in the applications of qualified foreign students. Candidates are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if they can arrange to do so. (This test examines the student's ability to understand word relationships and to comprehend what is read, and the ability to understand and solve mathematical problems.) Requests for an examination center overseas should reach the Board, Box 592, Princeton, New Jersey 08540, two months prior to the dates listed on the previous pages.

Knowledge of the English language is essential for admission. It is recommended that applicants take the TOEFL, Test of English as a Foreign Language. Information about registration should be obtained by writing to the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the results of this examination cannot be presented, students whose native language is not English are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

During the week of registration (September or February) all foreign students must take English placement tests in writing, aural comprehension, and speech. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained.



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Limited financial aid is granted to qualified applicants. Admitted students should direct an inquiry to the nearest American Embassy concerning the possibility of securing a Fulbright Travel grant. Employment during the first year here is not permitted. Official approval must be obtained from the Immigration and Naturalization Service for paid work later.

Definite credit for study at foreign institutions is not assigned until a full year of satisfactory work has been completed at Barnard. It is hoped that the foreign student will return to her home country and utilize her education after completion of studies in the United States.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose home is outside the United States, please see page 167.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

### ADMISSION AS SPECIAL STUDENTS

Mature students who wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as non-matriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete thirty points of work, they may apply for transfer to a matriculated basis as candidates for a degree.

### RE-ADMISSION

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically re-admitted. She should make application for re-admission to the Director of Admissions. A non-refundable fee of \$15 must accompany the application of any student who has not been granted a leave of absence by the Dean of Studies. Credentials are due by December 1 for the spring term, and by May 1 for the autumn term.

## V. Degree Requirements

### ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 120 points and include the following:

#### I. English A1—A2

The introductory course, Reading and Writing. (Foreign students please refer to page 31.)

#### II. Foreign Languages

(a) Competence in one foreign language. This requirement may be fulfilled either by passing a placement examination with a sufficiently high score, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.)

(b) One full-year course in a second foreign language if the student has not had the equivalent (two years) in high school. It is advisable to postpone this until the first part of the requirement (a) has been satisfied.

#### III. Humanities (12 points, or 10 points, if Art History 1—2 is elected without laboratory).

(a) Literature: One full year (6 points) to be studied in the language in which it was written originally, normally the six points to be taken in the same language.

(b) Six points: Art history; literature (in the original or in translation); music; philosophy; religion; (or four points, if Art History 1—2 is taken without laboratory).

#### IV. Social Sciences (12 points).

(a) History (6 points).

European: 1—2

American: 9—10; 33, 34; 45, 46; 55—56

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(b) Contemporary Society (6 points).

Anthropology 1, 2

Economics 1–2; 19; 25, 26; 31

Geography 3; 4; W4311x; W4312y

Government 1, 2 (both terms); 7; 9; 10; 11; 12; 15; 16; 20

Psychology 38

Religion 25; 26

Sociology 1–2

Unless both terms are indicated, any combination of these courses may be made.

V. Natural Sciences (14–16 points).

(a) One full-year course with laboratory, and (b) one full-year course in a second science (with or without laboratory), or six points of mathematics. A course in biological science and one in physical science is required, unless mathematics is elected to fulfill the non-laboratory requirement.

Physical  
Chemistry  
Geography 1, 2 (Earth  
Science)  
Geology  
Physics

Biological  
Anthropology 5–6 (Physical)  
Botany  
Psychology; Any two of these  
courses: 5; 8; 12; 18; 27; 30  
Zoology

VI. Hygiene (2 points).

VII. Speech.

Individual speech test required of all freshmen and transfer students.

VIII. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work. Each department requires, as specified, either a senior thesis or a major examination. A major may be chosen in any one field, or in such combinations as are approved by the departments concerned and the Committee on Programs and Academic Standing. Transfer students are required to take a minimum of 18 points in their major at Barnard.

IX. Electives: To be chosen in accordance with the interests and objectives of the student (40 to 44 points).

X. Physical Education (required through the junior year or until senior classification—86 points— is achieved).

All requirements must be completed within six years of the student's matriculation as a freshman at Barnard or elsewhere.



## DEGREE REQUIREMENTS

### MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in the major field. The exact nature of these requirements varies with the subject matter and the department's conception of the best method of mastering it. In some, a major examination must be taken; in others a senior thesis must be written or a senior seminar successfully completed. Specific requirements are listed in the departmental statements, beginning on page 47. At the end of the sophomore year each student chooses her major adviser, with whom she plans all subsequent work in her area of concentration.

### GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. Quantity is estimated by the number of points completed. The credit value in points follows each course title, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are exceptions.) Quality of work is indicated by the following grades: A or A-, excellent; B+, B, B-, good; C+, C, C-, fair; D, poor; F, failure, and P, passed without a specific grade. Work of unusual merit in the major field is awarded the grade, Passed with Distinction.

A course is marked Incomplete (Inc), if the student has filed the instructor's written permission for the postponement of required work with the Registrar; Absent (Abs) means absent from the final examination; Deferred (Def) means the grade has been deferred because of illness during the examination; WD/F signifies withdrawal from a course without formal notification.

In computing averages, each point with a mark of A = 4; B = 3; C = 2; D = 1; F = 0. For every plus or minus point an adjustment of +0.3 or -0.3 is made. In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. At the end of each term all records are examined. Normally only those students whose cumulative average is 2.00 or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on Programs and Academic Standing.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Loss of credit for excess D work is deducted from the total number of points

## BARNARD COLLEGE

for the term. Work of D grade is not counted in the major field, although it is included in the average for the major.

### REQUIREMENTS FOR TRANSFER STUDENTS

Before registration the transfer student receives an estimate of the credit she may expect for work she has done at her previous college. She plans her program with her adviser with the estimate as a guide to the required work to be completed. The following restrictions should be noted: All transfer students must take the English proficiency test before registration. Any student who has had an introductory course in her former college which is comparable to English A1-A2 may offer it in fulfillment of the English requirement, provided she passes the proficiency test. Others are assigned either to English 1, 2 or to other English courses suited to their needs.

Transfer students are required to take a language placement test before registration and are assigned to the course which the results of the test indicate they are prepared to take. A high score on the test will give exemption from the language requirement. Should the student be placed in a language course lower than one already passed at her former college, she will lose credit for any work that must be repeated. Transfer work in literature may be counted as elective credit and may be used to satisfy the literature requirement of the humanities under certain conditions, though the student may be required to take additional work in language to complete the language requirement.

All transfers are required to take the hygiene exemption test before registration. Those who do not pass the test must take Hygiene 1 (see page 106) during the autumn term.

A maximum of 32 points towards the Barnard degree is allowed for one year's work elsewhere. Sixty of the points to be counted towards the degree must be taken at Barnard, including a minimum of 18 points in the major field. Not more than 6 points of work of D grade done elsewhere may be counted towards the degree.

## VI. General Information

### REGISTRATION

Class advisers for the freshman and sophomore years and major advisers for upperclassmen are appointed from the teaching staff and are prepared to give information and advice. For the year 1964-65 the class advisers are:

MISS MARIANNA BYRAM

Adviser to the Class of 1968

MRS. LOUISE G. STABENAU

Adviser to the Class of 1967

Registration for all students takes place in the Gymnasium, Barnard Hall, as follows:

#### Autumn Term

Monday, September 21

All returning commuting students

Tuesday, September 22

All returning resident and non-resident students

Wednesday, September 23

9:00 a.m.—1:00 p.m.

All freshmen

1:00 p.m.—4:00 p.m.

All transfers and readmitted students

#### Spring Term

Monday, February 1

All freshmen and sophomores

Tuesday, February 2

All juniors and seniors

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fee of \$15 is charged for failure to register on the dates indicated. (See also Payment of Fees, page 163.)

No student will be permitted to register after two weeks from the official opening date of either term.

No student may be registered simultaneously in any other school or college without the consent of the President of the College.

### REGISTRATION IN ABSENTIA

Fifteen points of the senior year must be taken at Barnard except by special permission of the Committee on Programs and Academic Standing. Normally, such permission is granted to students who have spent no less than two years at Barnard; whose scholastic standing is above average; and who present a well-planned program approved by the major department. A senior taking work elsewhere for credit towards the Barnard degree registers *in absentia*. (See Fees, page 163.)



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## ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the College, the receipt of academic credit, graduation and the conferring of a degree or certificate are subject to the disciplinary powers of the College. Any registration may be cancelled at such time and upon such grounds as the College shall in its sole discretion determine.

## ATTENDANCE

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with consequent detriment to their academic standing. Frequent or prolonged absences from the College without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

The attendance of freshmen and students who are on probation is subject to special review by the Dean of Studies. Excessive absence in their cases may result in loss of credit from the total number of points for the term.

All absences due to illness must be reported on forms available in the Office of the College Physician. Illness is considered an excuse for excessive absence only if the student's statement is filed immediately upon her return to college.

Barnard is a non-denominational college. Students who are prevented by conscientious scruples from complying with academic requirements on days set apart for religious observance should discuss this problem with their religious counselor.

## WITHDRAWAL

A student not subject to discipline for infraction of College rules may withdraw from the College with an honorable discharge. Notice of intention to withdraw must be given in writing on forms to be obtained from the Office of the Dean of Studies. Failure to submit such notification on the part of a student who withdraws while college is in session may result in a report of WD/F for the term's work. A student under twenty-one must furnish written assent of a parent or guardian.

Requests for leaves of absence should be addressed to the Dean of Studies on forms to be obtained from her office. A student in good standing may be granted a leave of absence for one term or two consecutive terms only, for personal reasons, *e.g.*, health, marriage, financial necessity, or for study abroad. The leave of absence must be requested prior to the term(s) to which it applies.

## GENERAL INFORMATION

### CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen:	those who have completed fewer than 24 points of academic work
Sophomores:	those who have completed 24 points
Juniors:	those who have completed 54 points
Seniors:	those who have completed 86 points
Unclassified:	those who have not yet been assigned definite credit on transfer
Non-matriculated:	those who are not candidates for the degree

No matriculated student may change her status to that of non-matriculated student.

### CHANGE OF PROGRAM

Students may change the programs for which they have registered, through Thursday, October 8, Autumn Term, and Wednesday, February 17, Spring Term. After that date, changes of program are subject to the following regulations:

**Section Changes:** Sections may not be changed except at the written request of the instructor.

**Adding Courses:** No course or point may be added for any reason.

**Dropping Courses:** A course may be dropped with the written approval of the class adviser (for freshmen and sophomores), the major adviser (for juniors and seniors), or the College Physician. The application must bear the signature of the instructor. After a fixed date (December 15, Autumn Term; April 15, Spring Term), no course may be dropped except with the approval of the Dean of Studies, and then only for reasons of serious personal emergency.

**Audited Courses:** No change from a non-credit to a credit basis may be made under any circumstances after the final date for adding a point or a course.

### PROGRAM RESTRICTIONS

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Academic Standing. The minimum number of points that may be elected each term is 12 and the maximum 17; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or more than seven hours of class and laboratory work combined. Students may not

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elect courses meeting consecutively at 11, 12, and 1 o'clock on the same day; one of these hours must be kept free.

All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements.

Any exception to these restrictions must have the approval of the Committee on Programs and Academic Standing.

## COLUMBIA UNIVERSITY COURSES

Under certain conditions courses in other divisions of the University may be elected when an equivalent course is not offered at Barnard.

Graduate Faculties: Courses in the Faculties of Political Science, Philosophy and Pure Science are open to qualified upper classmen who need this work to achieve their specific objective in the major field. Such students must obtain the approval of the major adviser and the chairman of the Barnard department concerned. This privilege is intended primarily for members of the senior class.

Seniors with high academic standing may apply for permission to count up to 12 points of graduate work in the major field towards the graduate degree.<sup>1</sup> Those who wish to register for graduate courses to count towards a higher degree must comply with the following conditions:

1. The approval of the chairmen of the Barnard and Columbia departments, the Graduate Admissions Office, and the Committee on Programs and Academic Standing must be obtained in advance and filed in the Registrar's Office.
2. The student must be in her senior year.
3. The program for the term must not be in excess of 16½ points.
4. The points for graduate credit must be over and above the 120 points required for the A.B. degree.

Columbia College: Certain courses at Columbia College may be elected, in addition to those in this announcement. A list of these is provided by the Barnard Registrar.

School of General Studies: Courses in the School of General Studies which are not listed in this announcement may be elected with the approval of the class or major adviser and the Committee on Programs and Academic Standing. They will be credited towards the degree, if passed with a grade not lower than C. Fees for General Studies courses not listed in the Barnard announcement are paid for by the student

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<sup>1</sup> Financial aid is not applicable to fees for such work.



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herself (\$40 per point), over and above the Barnard tuition, with the following exceptions:

1. Courses which are essential to the major for which the approval of the major adviser and the Committee on Programs and Academic Standing is obtained.
2. Language courses not offered at Barnard, under special conditions to be reviewed by the Committee on Programs and Academic Standing.
3. Courses certified by the chairman of a department as essential to a program of work to be taken at Barnard in a particular field under the direction of the department.

Teachers College: Certain courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses (\$45 per point) are not included in the regular tuition, but are added to the Barnard bill.

### SUMMER STUDY

A student will normally be expected to spend four years completing work for the degree; a maximum of 18 points may be earned in summer school under the following conditions:

The entire summer program must be approved in advance in writing, first by the class or the major adviser, and secondly by the chairman of the appropriate Barnard department. Programs must be approved and submitted to the Registrar before the last day of the spring term. Official reports of grades must be filed with the Registrar not later than November 1.

Not more than two one-term courses may be elected in any one summer. Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than B- will be credited towards the degree.

Grades will not be included in the Barnard average.

### EXAMINATIONS

Examinations are scheduled at the end of each term. For the academic year 1964-65 they will be held on January 18-28 inclusive and May 17-27, inclusive.

Deficiency examinations, given in September and March, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness, or extreme family emer-

## BARNARD COLLEGE

gency. Exceptions to these conditions can be made only by ruling of the Committee on Programs and Academic Standing in individual cases.

Absence for reasons of health on the day of an examination should be reported to the Office of the College Physician.

Examinations missed in January are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deficiency examination, she will receive a grade of zero for that examination. A fee of \$5, payable in advance, is charged for each deficiency examination. A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

### QUIZZES

Instructors are not required to give make-ups to those absent from previously announced quizzes. In case an instructor is willing to give a make-up quiz, he is authorized to do so only if the student has submitted a medical certificate of illness approved by the College Physician, or evidence of other extenuating circumstances acceptable to the instructor.

### DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time.

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*) and with highest distinction (*summa cum laude*). Departmental honors are awarded to graduates who have done distinguished work in their major fields.

### DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. A program of not less than twelve points each term and an average of 3.40 for the year are required. Announcement of the list is made the following October.

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### PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship and Barnard students of exceptionally high standing are eligible.

### ASSEMBLIES

College assemblies and academic meetings at which attendance is obligatory are held on Tuesdays at 1 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are required to keep this hour free from other engagements.

### HEALTH

The College Physician is responsible for the health of the college community. She is assisted by three consulting psychiatrists, a psychiatric counselor, and two nurses. Medical examinations at regular intervals are obligatory: December 15 is the final date for seniors for the completion of their examination; May 15 for freshmen. Students will not be permitted to register for the succeeding term until they have had this examination.

Students assigned rooms by the College are required to subscribe to the University Student Medical Plan (see page 166) which includes provision for infirmary care. Other students living off-campus may subscribe to this plan, if they wish.

All students, both resident and non-resident, must immediately report any illness, however minor, to the Medical Office. If resident students wish to have someone other than the College Physician care for them, their parents must address a request to the College Physician, and send her the name and address of the doctor before registration.

### RESIDENCE

There are three dormitories on the Barnard campus, Brooks, Hewitt, and Helen Reid Halls, containing both single and double rooms, and providing residence facilities for approximately 500 students. As a rule, freshmen are assigned to the double rooms.

The dormitories are under the supervision of the Director of Residence. The Executive Committee of the Residence Students' Association helps to decide matters relative to student welfare and conduct. Further in-



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formation concerning living in residence is available in the Residence Halls Guide which is sent to all resident students upon admission.

Barnard has residence space available for only one-half of the student body, and since it is the policy of the College to house on campus as many students as possible from different parts of the world, it is not possible to assign rooms to those who are able to commute, or who are carrying a program of less than 12 points.

Housing Regulations: Classifications for housing are as follows:

Residents: Those assigned rooms by the College.

Non-Residents: Those whose legal homes<sup>1</sup> are more than one and a half hours' distance each way, who were admitted as non-resident students and were not assigned rooms.

Commuters: Those whose legal homes<sup>1</sup> are within one and a half hours' commuting time each way. The College will be the sole judge of whether or not the student's legal home is in a commuting area.

All non-residents and commuters are eligible for rooms assigned by the College on a semester basis, when vacancies occur. Priority is given to upperclassmen whose legal residence is farthest from the campus. Non-resident students may make application to live off-campus, as follows:

1. If they are 21 years of age or older.
2. If they live with parents, husband, grandparents, aunts, uncles, married brothers or sisters, or brothers or sisters over 21. (A permit is not required for those living with parents or husband.)
3. If they wish to live in a women's residence or a women's hotel<sup>2</sup> approved by Barnard, or if they obtain a living-in job through the Placement Office. This option is not open to freshmen.

The above regulations pertain also to those admitted as resident students who may prefer to live off-campus.

Requests for off-campus housing for non-resident students for the winter term must be submitted *in writing by the parents* before September 15 to the Director of College Activities. Non-resident students entering in the spring term should, if possible, submit applications by January 15. Failure to meet these dates will result in late registration, which is subject to penalty.

Commuting students (other than freshmen) whose legal homes are

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<sup>1</sup> A "legal home" for a student under 21 is the residence of her parents or her legal guardian.

<sup>2</sup> A list of approved residences and hotels is available.

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within one and a half hours' commuting distance may live wherever their parents wish, under the following conditions:

One of the parents, or a legal guardian, must come in person to the College before the student moves from her legal home to discuss the need for a residence near the campus, and to sign a permission form stating that the parent or guardian has seen the proposed residence and takes full responsibility for the daughter's health, safety, and finances.

The College strongly recommends that in making arrangements for off-campus residence two or more students live together.

No student, other than one who is living in the College residence halls, or with her parents or husband, will be allowed to register *unless her permit is on file.*

During the academic year appointments should be made with the Director of College Activities. During the summer appointments will be handled in the Office of the General Secretary.

Any change in residence must be reported immediately to the Director of College Activities, and a new permission form secured.

No exception to these regulations will be granted, unless the College considers that the circumstances are so unusual that they are not applicable to any other student. Requests for exceptions must be sent in writing by a parent or guardian to the Director of College Activities.

Financial aid for room and board will be considered only for students admitted as residents, who are living in rooms assigned by the College.

*A student who violates the housing regulations will be suspended for a term, or expelled from the College.*

### MARRIED STUDENTS

Students who plan to marry during the academic year and continue in college must notify the Dean of Studies in advance of the date of marriage. The College must receive assurance in writing from the student's parents or guardian that they are aware of her plans. Failure to comply with these conditions will make the student liable to dismissal.

Married students, as a rule, will not be allowed to remain in the college residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

### THE PLACEMENT OFFICE

The Placement Office, maintained by the College as a service to alumnae and students, offers assistance in planning for and obtaining full and

part-time positions. Through personal interviews and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations that utilize their capabilities to the fullest extent.

The office, which is open twelve months of the year, keeps in close touch with the needs of employers through the hundreds of job referred to the College, through professional contacts of faculty and alumnae, and visits to schools and organizations in business and professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee, a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Placement Office obtains jobs for undergraduates both on and off the Barnard campus. Typical jobs include baby-sitting, tutoring, clerical, laboratory, editorial and sales work. Freshmen are discouraged from undertaking employment, since it is difficult at first to estimate the amount of time that can safely be spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time employment amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$200.

Summer jobs may be obtained through the Placement Office. Approximately seventy-five per cent of the Barnard students work during the summer and their earnings average about \$450.



## VII. Courses of Instruction

The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. Fuller information can be obtained from the chairmen of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Autumn term courses are marked by odd numbers, spring term courses by even numbers, year courses by consecutive odd and even numbers. An odd number followed by suffix *y* indicates a course repeated in the spring term that is ordinarily given in the autumn term. An even number followed by *x* indicates a course repeated in the autumn term that is ordinarily given in the spring term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1–2). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Academic Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if the written permission of the instructor is obtained.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition, 6 points. [**0**]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed

## BARNARD COLLEGE

by the student in the Registrar's Office. A complete list of courses by examination groups is given on page 193.

The following alphabetical prefixes designate the division of the University for whose students the course is primarily offered:

C—Columbia College

F—School of General Studies

G—Graduate Faculties

R—Program in the Arts

V—Joint Barnard-Columbia Faculty

W—Inter-University Faculty

The level of the course in general is indicated as follows:

1000-3999 Undergraduate

4000-5999 Graduate, open to qualified undergraduates

6000-8999 Graduate, normally not open to undergraduates

The symbol *x* follows the number of a course given in the autumn term; the symbol *y* follows the number of a spring term course.

# INTERDEPARTMENTAL OFFERINGS

## I. FOREIGN AREA STUDIES

Officer in charge for 1964-65, PROFESSOR ULANOV.

The purpose of Foreign Area Studies is to provide an introduction to the study of some one foreign region or country of the world. The study is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. Accordingly, a student who majors in Foreign Area Studies plans her program in three aspects;

1. Command of at least one appropriate foreign language. The competence expected varies according to the language; for specific requirements consult the officer in charge. In addition to the language courses offered at Barnard, courses in other languages are available at Columbia University.
2. Acquaintance with the basic knowledge and methods of an academic department, such as history or literature, not necessarily with reference to a specific region. The major adviser helps in the choice of courses.
3. Courses on a region or country viewed through both the social sciences and the humanities, including the discipline chosen in the second aspect of the major. Courses are chosen in consultation with the major adviser.
4. A senior seminar or equivalent work under the direction of the Committee.

The regions in which Foreign Area Studies majors are available are: England (see special program in British Civilization, page 51); Western Europe, with special reference to some one country; Russia; Asia, with special reference to certain regions; and Latin America.

The major examination is in two parts, one examining knowledge of the chosen area in general and the other knowledge of the area in terms of the chosen discipline. Specially qualified students may be invited to write a senior thesis instead of the second part of the major examination.

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the Committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge of Area Studies as soon as possible. It is advisable for such students to complete as many of the college requirements as possible and to begin study of an appropriate foreign language before the junior year.



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## II. AMERICAN STUDIES

This program is supervised by the Committee on American Studies:

BASIL RAUCH, Professor of History, Chairman

ANNETTE K. BAXTER, Associate in History

JOHN A. KOUWENHOVEN, Professor of English

BARBARA M. CROSS, Assistant Professor of English

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies. Students who wish to major in American Studies should obtain from the chairman of the committee an application form which is to be filled out and returned to him when major subjects are selected. Applicants must show special qualification for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete History 9-10 and 1-2, and at least two of the required basic courses. In the junior year majors should take the remaining two basic courses and American Studies 1, 2, and in the senior year the two advanced courses and American Studies 3, 4.

### Required Courses:

History 9-10, History of the American Nation from Colonies to World Power  
History 1-2, Modern European History

Basic and advanced courses in social sciences and humanities to be selected from a mimeographed list issued by the chairman. These courses are distributed as follows:

Two basic full-year courses in social sciences.

Two basic full-year courses in humanities.

One full-year advanced course in one of the social sciences in which a basic course was taken.

One full-year advanced course in one of the humanities in which a basic course was taken.

A research essay to be prepared in the senior seminar is required in lieu of the major examination.

### 1, 2. Junior Readings. 6 points.

[0]

Students will read selected classics in American Studies; brief written reports will be prepared for discussion. The aim of the course is to prepare the student to read, discuss, and write critically on interdisciplinary works.

Required of all junior majors in American Studies. Open to others by written permission of the chairman. DR. BAXTER. Bi-weekly meetings. Th 4:10-6.

## INTERDEPARTMENTAL OFFERINGS

### 3, 4. Senior Seminar. 6 points. [0]

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar.

Required of all senior majors in American Studies. Open to others by special permission of the chairman. PROFESSOR RAUCH. W 4:10–6 and frequent conferences.

### III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

DAVID A. ROBERTSON, JR., Professor of English, Chairman

SIDNEY A. BURRELL, Associate Professor of History

ROBERT LEKACHMAN, Professor of Economics

ELEANOR ROSENBERG, Professor of English

CHILTON WILLIAMSON, Professor of History

Open to students who are interested in an interdisciplinary approach to learning within a broad general area. Particularly emphasizes historical and literary traditions of British Civilization, but is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies.

A major in British Civilization. A student who wishes to major in British Civilization must obtain the approval of the chairman of the committee. By this time the applicant should have completed or be in the process of completing History 1–2. The applicant should then plan, in consultation with the chairman, a program of study which will contain the following three required courses: History 11, 12; History 35, 36; and a senior seminar.

In addition each student should select in accordance with her interests a minimum of three courses in the social sciences and the humanities (within the general area of British Civilization) to be selected in consultation with the chairman, as follows:

One basic course in the social sciences.

One basic course in the humanities.

One advanced course in either the social sciences or the humanities.

Senior requirement: A senior may elect to take a three-hour comprehensive examination to be given at the end of April or she may write a senior thesis, the length and standards of which will be set by the committee.

### 81–82. Seminar in British Civilization (same as Government 61–62, Section I). 6 points. [0]

Readings and discussion of selected problems in the development of British civilization from the Norman Conquest to the twentieth century. Open to majors in British Civilization and history majors interested in historiography on permission of the chairman. Prerequisite: History 11, 12. PROFESSOR PEARDON. Tu 4:10–6.

# BARNARD COLLEGE

## IV. CONSERVATION OF NATURAL RESOURCES

This program is organized and administered by a committee of members of the Departments of Botany and Geology-Geography:

LEONARD ZOBLER, Associate Professor of Geography, Chairman

JOSEPHINE MAYER, Associate in Education

DONALD D. RITCHE, Professor of Botany

HENRY S. SHARP, Professor of Geology

The program is designed for students who have a vocational or an avocational interest in the earth as the home of man. In an urbanized society it is important to sharpen man's awareness of his dependence on natural resources. The ecology of human society is illustrated by the study of: the conservation of resources of soil, water, fisheries, range lands, forests, and minerals; concern for wildlife; protection of local and federal areas for public parks; and the threat of air and stream pollution and over-crowded cities to the survival of our way of life.

Students who wish to participate in the program should consult a member of the committee. The program is flexible enough to accommodate students interested in the scientific or politico-economic aspects of natural resources, as well as those who may wish to prepare for teaching.

The following courses are suggested for a major: Botany 1-2; 7; F1003x-F1004y; Geography 1; 3, 4; W4311x; W4312y; 59, 60; Geology 1, 2; G4330y or G4332y. The senior seminar in Natural Resources is required, and a summer course in field ecology and conservation is strongly recommended.

## V. THE HERITAGE OF THE HUMANITIES

The following courses have been grouped together as illustrative of the diversified facets of our cultural heritage and traditions. For suggestions as to further development of this material, please consult the chairman of one of the humanities or social science departments. Course descriptions may be found in the departmental statements.

**Anthropology G4107x. The Study of Folklore.** 2 or 3 points. PROFESSOR CHOWNING.

**Art History 1-2. Introduction to the Study of Art History.** 4 or 6 points. PROFESSOR MIESEL.

**Classical Civilization 31. Classical Myth.** 3 points. MISS CONSTANTINIDES.

**Classical Civilization C3123x. Greek Drama and its Influences.** 3 points. PROFESSOR GERSHENSON.

**Classical Civilization C3126y. Epic in Greece.** 3 points. MR. VAIO.

**English 82. Shapes of American Experience.** 3 points. PROFESSOR KOUWENHOVEN.



## INTERDEPARTMENTAL OFFERINGS

**[English 83. Modern Literature and the Allied Arts. 3 points. PROFESSOR ULANOV.**

Not given in 1964-65.]

**History 7-8. Medieval Thought, Culture, and Science. 6 points. PROFESSOR CANTOR.**

**[Italian V1121x. Italian Renaissance and its Classical Background (in English). 2 or 3 points. PROFESSOR LORCH.**

Not given in 1964-65.]

**Music 1-2. An Introduction to Music. 6 points. PROFESSOR DORIS and MISS CARPENTER.**

**Oriental Civilizations V3355x-V3356y. 8 points. PROFESSORS BIELENSTEIN, DE BARY, EMBREE, MESKILL, and WEBB.**

**Oriental Humanities V3399x-V3400y. 8 points. PROFESSORS DE BARY, EMBREE, MESKILL, MORRIS, and MR. OLSON.**

**Philosophy 43. Philosophical Implications of the Modern Novel. 3 points. PROFESSOR BRENNAN.**

**Religion 25. Religion in Contemporary Society. 3 points. PROFESSOR STAHMER.**

**Religion 26. Religion in Contemporary Culture. 3 points. PROFESSOR STAHMER.**

**Spanish 13, 14. The Culture of the Hispanic Countries. 4 points. PROFESSOR GARCÍA-LORCA and MR. FUENTES.**

**Spanish 33, 34. Introduction to the Literature of Spain in Relation to the Kindred Arts (in English). 4 points. MRS. SERVODIDIO.**

# ANTHROPOLOGY

VISITING PROFESSOR: LUCY P. MAIR

ASSISTANT PROFESSORS: ANN CHOWNING (Chairman), WILLIAM A. HAVILAND

ASSISTANT: —————

Anthropology is the study of man in all aspects, cultural and biological. Consequently it is related to many other disciplines within the social and natural sciences and the humanities. A student majoring in anthropology receives a broad liberal arts education and will also be prepared to continue in graduate work, which is essential to most professional careers in anthropology.

Every major is expected to have a general knowledge of the whole field. To this end, she is required to take: Courses 1; 3 or 4; 5–6; 19; 20; 51; and one archaeology course given either at Barnard or Columbia. A field course will not satisfy this last requirement. She should also choose a special field of interest, and select additional courses which relate to it.

Majors of high standing may be invited to write a senior thesis (53, 54). All majors must take a major examination which is in two parts of three hours each. The first section, required of everyone, tests the student's knowledge of theoretical concepts in anthropology; ethnography; physical anthropology; archaeology; linguistics. Greatest emphasis is on the first four topics. The second section is on a special topic chosen by each student according to her own particular interests.

Suggested combinations of courses are:

For students primarily interested in the social sciences: Courses 2; 3; 4; 14; 26; economics, geography, government, history, Oriental Studies, philosophy, psychology, religion, sociology and appropriate Columbia courses.

For students primarily interested in archaeology: Course 8, ancient history, classical civilization, art history, geography, geology, and appropriate Columbia courses.

For students primarily interested in the humanities: Courses 7; 8; 9; 10; art history, language, literature, music, philosophy, and religion.

For students primarily interested in the biological aspects of anthropology: Course 5–6; geography, geology, psychology, and zoology.

Several major museums and libraries in New York offer exceptional opportunities for individual research which may be carried out in Courses 51; 53, 54. Various summer schools offer opportunities for field experience in archaeology and ethnography. Majors are encouraged to participate in such programs. A maximum of six points obtained from a field course may be counted towards the Barnard degree.

## **1, 2. Introduction to Cultural Anthropology.      6 points.      [3]**

The nature and diversity of human society and culture: comparative study of economics, social and political organization, religion, art, and the individual. Problems resulting from contacts between industrialized and non-literate societies.

## ANTHROPOLOGY

Each course counts towards the requirement in contemporary society; if taken together they fulfill it. Prerequisite for Course 2: Course 1 or permission of the instructor. PROFESSOR CHOWNING and assistant. M W F 11.

**3. Cultural Anthropology of the Old World.** 3 points. [5]

Survey of native cultures of Oceania, Eurasia and Africa. Term paper. PROFESSOR HAVILAND. M W F 2:10.

**4. Cultural Anthropology of the New World.** 3 points. [5]

Survey of the Indian and Eskimo cultures of the Americas. Term paper. PROFESSOR HAVILAND. M W F 2:10.

**5-6. Physical Anthropology.** 6 points. [7]

The physical evolution of man, including racial differentiation, and the investigation of human biology. Evolutionary theory, comparative study of primates, the fossil record, and human genetics. Fulfills the non-laboratory biological science requirement. PROFESSOR HAVILAND and assistant. Tu Th 10:35-11:50.

**G4107x. The Study of Folklore.** 2 or 3 points. [10]

Mythology, folktale, proverbs, and other forms of expression. Analysis of style, characters, and plot; significance of folklore in the study of culture. Greatest emphasis will be placed on material from non-literate societies. Term paper. A second paper based on the Motif-Index of Folk-Literature is required for the third point. PROFESSOR CHOWNING. F 3:10-5.

**8. Survey of World Prehistory.** 3 points. [4]

Survey of prehistory, from the earliest artifacts through the rise of civilization, in various parts of the world. Attention will be paid to the nature of archaeological data and interpretation, and to the significance of similar developments in different areas. Term paper. PROFESSOR HAVILAND. M W F 1:10.

**[9. Introductory Linguistics.** 3 points.

Not given in 1964-65.]

**[10. Linguistics: Structural Analysis.** 3 points.

Not given in 1964-65.]

**[14. Social Organization.** 3 points. PROFESSOR CHOWNING.

Not given in 1964-65.]

**19. History of Anthropological Theory.** 3 points. [9]

The historical development of the principal concepts in the various subfields of anthropology from the nineteenth through the early part of the twentieth century. Bi-weekly papers. Open only to juniors and seniors. Prerequisite: Course 1 or written permission of the instructor. PROFESSOR HAVILAND. Th 2:10-4.



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**20. Current Anthropological Theory.** 3 points. [9]

Major theoretical concepts current in the various subfields of anthropology. Bi-weekly papers. Open only to juniors and seniors. Prerequisite: Course 1 or written permission of the instructor. PROFESSOR CHOWNING. Th 2:10-4.

**51. Senior Seminar.** 3 points. [0]

Specific subject to be determined by the interests of the students. Oral reports and a term paper. Required of senior majors, and ordinarily open only to them. PROFESSOR HAVILAND. Tu 4:10-6.

**52. Seminar on Anthropological Problems.** 3 points. [0]

Discussion of advanced readings covering the whole field of anthropology. Open only to seniors. PROFESSOR CHOWNING. Tu 4:10-6.

**53, 54. Senior Thesis.** 6 points. [0]

Topic to be chosen in consultation with the instructor in charge. Weekly conference required. PROFESSORS CHOWNING and HAVILAND. Hour to be arranged.

## COLUMBIA COURSES

With the consent of the Barnard department, qualified majors may elect certain graduate courses given at Columbia. A description of these courses will be found in the Announcement of the Graduate Faculties.

The following undergraduate courses taught by the combined faculties of Columbia College and the School of General Studies are open to Barnard students, provided that permission is obtained from the chairman of the Barnard department. For details and hours of these courses see the Announcements of Columbia College or of the School of General Studies.

**W1004y. Peoples of Africa.** 3 points.

**W3001x. History of Anthropology.** 3 points.

**W3011x. Primitive Society.** 3 points.

**W3029y. Archaeology of the New World.** 3 points.

**W3032x. Archaeology of the Old World.** 3 points.

**W3042y. Primitive Religion.** 3 points.

**W3049x. Theory and Results in Archaeology.** 3 points.

**W3050y. Field Methods in Archaeology.** 3 points.

**W3066y. Latin America, Prefield Orientation.** 4 points. Prerequisite: permission of the instructor.

# ART HISTORY

PROFESSORS: JULIUS S. HELD, MARION LAWRENCE (Chairman)

ASSOCIATE PROFESSOR: JANE G. MAHLER

VISITING ASSISTANT PROFESSOR: VICTOR H. MIESEL

ASSISTANT PROFESSORS: MARIANNA BYRAM, <sup>1</sup>BARBARA NOVAK

LECTURER: SARAH C. FAUNCE

ASSISTANT: LOIS ENGELSON

STUDIO ASSISTANT: MARY ELLEN BLUMENFELD

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

PROFESSOR: OTTO BRENDEL

ASSOCIATE PROFESSOR: EVELYN HARRISON

Art is a unique form of human expression. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulations of art in museums all over the world.

Courses in the history of art are generally of the lecture type. In several courses a third hour offers opportunities for discussions in small groups. Many courses schedule trips to museums and in other ways take advantage of the resources of New York, one of the world's great centers of art. Studio techniques are taught only in Course 1-2, but students are encouraged to take any course for which they qualify in the School of Painting and Sculpture of Columbia University. See page 60 for regulations governing these courses.

Majors in Art History are required to take the Seminar, 97-98, and courses in ancient, medieval, renaissance, baroque and modern art. Studio courses do not count towards the major. A reading knowledge of French, German and Italian is highly desirable, especially for students who expect to do graduate work. Students expecting to specialize in the art of any one country should also acquire that language i.e.—for Spanish art, Spanish.

The major examination is in two sections of three hours each and is designed to test (1) the student's overall knowledge of the field, (2) her ability to analyze individual works of art, and (3) her competence in one special field, chosen by her in consultation with her major adviser and in which she has been working in the senior seminar.

**1-2. Introduction to the Study of Art History.** 4 points, or with laboratory, 6 points. [9]

A general study of aesthetic problems in the visual arts as preparation for a more detailed study, including a discussion of the major problems of artistic expression

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<sup>1</sup> Absent on leave, 1964-65.

## BARNARD COLLEGE

and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers on buildings, sculpture, and paintings in New York. Laboratory work: An introduction to the technical problems of carving, clay modeling, graphic art, egg tempera, and oil painting with emphasis on two and three dimensional design, also sketching from the living model and out of doors. Laboratory fee, \$5 per term.

This course satisfies the non-literature requirement in the humanities. PROFESSOR MIESEL. Lec. Tu Th 2:10–3. Lab. (2 hours) W 10–11:50; 3:10–5; Th 2:10–4, and other sections, if necessary, at hours to be arranged.  
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### **43, 44. Introduction to Ancient Art. 6 points. [4]**

Winter Term: A survey with emphasis on the major arts of architecture, painting and sculpture of Egypt, Mesopotamia, the early Aegean and archaic Greece. Spring Term: The art of classical and Hellenistic Greece and of Rome down to the time of Constantine. Either term may be taken separately. PROFESSORS HARRISON and BRENDL. M W F 1:10. Visits to the Metropolitan Museum of Art at hours to be arranged.

### **51, 52. Medieval Art. 6 points. [5]**

Winter Term: Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, then the Celtic, Carolingian and Romanesque styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France and Gothic architecture, sculpture, and painting, ending with the introduction of the Italian Renaissance into France. Open to all except freshmen. Course 51 is prerequisite to Course 52. PROFESSOR LAWRENCE. M W F 2:10. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2:10, or at hours to be arranged.

### **[61. European Architecture from the Renaissance through the Rococo Style. 3 points. PROFESSOR BYRAM.**

Not given in 1964-65.]

### **64. European Sculpture, Renaissance and Modern. 3 points. [2]**

Important developments in European sculpture from the Pisani and the Italian Renaissance into the twentieth century. One or two term examinations and possibly one or two short papers. Open to all except freshmen. PROFESSOR BYRAM. M W F 10.

### **65. Renaissance Painting in Northern Europe. 3 points. [9]**

Painting of the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. PROFESSOR HELD. Tu Th 2:10 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.



- 66. Italian Renaissance Painting.** 3 points. [9]  
The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian. Open to all except freshmen. PROFESSOR HELD. Tu Th 2:10 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.
- 68. Prints and Drawings.** 3 points. [7]  
A history of graphic media, from the fifteenth to the twentieth century. The course deals both with technical and stylistic aspects of the field and stresses the contribution of masters such as Dürer, Rembrandt, Goya and Daumier. Limited to 20 students. PROFESSOR HELD. Tu Th 10:35–11:50.
- [70. European and American Architecture from the Eighteenth into the Twentieth Century.** 3 points. PROFESSOR BYRAM.  
Not given in 1964-65.]
- 75, 76. European Painting since the Renaissance.** 6 points. [7]  
Winter Term: Mannerism, Baroque, and Rococo (El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt, Watteau), the influence on art of the Counter-Reformation and Absolutism. Spring Term: Neo-Classicism, Romanticism (David, Goya, Delacroix), Realism, Impressionism, and the different trends of the twentieth century (Courbet, Manet, Cézanne, Van Gogh, Picasso, Klee). Open to all except freshmen. Course 75 is prerequisite to Course 76 except on written permission of the instructor. PROFESSOR MIESEL. Tu Th 10:35–11:50.
- [77. American Art from Colonial Times to the Armory Show.** 3 points. PROFESSOR NOVAK.  
Not given in 1964-65.]
- [78. Modern European and American Painting.** 3 points. PROFESSOR NOVAK.  
Not given in 1964-65.]
- 81. The Literature of Art.** 3 points. [13]  
Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Burckhardt, Wölfflin, Worringer, Berenson, Fry, Panofsky and Malraux). Visual material will be discussed. Intended for junior majors, but also open to senior majors. MISS FAUNCE. Tu 3:10–5.
- 83. Masterpieces of Art in the New York Museums.** 3 points. [7]  
Designed to acquaint students with some of the great artistic treasures assembled in New York and to sharpen their aesthetic and historical understanding through the study of the originals themselves.  
Open only to majors. Limited to 15 students. PROFESSOR HELD. T Th 10:35–11:50.

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### 91, 92. Oriental Art. 6 points. [3]

The arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting, frescoes, and minor arts. The arts of China and Japan, with attention to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period; in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints. Open to all except freshmen. PROFESSOR MAHLER. M W F 11. Conferences and visits to the Metropolitan Museum of Art at hours to be arranged.

### 97-98. Seminar for Majors. 6 points. [12]

A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classical archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports by students on problems of general interest and one long or two short papers on material in the special field chosen by the student. Required of all majors in their senior year. PROFESSOR LAWRENCE. Th 4:10-6.

## STUDIO COURSES

A maximum of 12 points of studio work may be credited. Students taking more than 6 points of studio work are required to validate the additional points with courses in Art History. Students may register only with written permission of the departmental representative (PROFESSOR RACZ, 410 Low Library). For further details see the Announcement of the Program in the Arts.

### Drawing R1001x-R1002y. 6 points.

Model fee, \$7.50 per term. PROFESSOR RACZ and ----- Section I  
Tu Th 1:10-4. Section II M W 7:10-10 p.m. Section III Tu Th  
7:10-10 p.m.

### Painting R1011x-R1012y. 6 points.

Model fee, \$7.50 per term. PROFESSORS GREENE and HELIKER, and MR. GOLDIN.  
Section I M W 9-11:50. Section II M W 1:10-4. Section III  
Tu Th 1:10-4.

### Sculpture R1023x-R1024y. 6 points.

Model fee, \$7.50 per term. MR. AGOSTINI. M W 7:10-10 p.m.

### Design R1031x-R1032y. 6 points.

Laboratory fee, \$7.50 per term. PROFESSOR NIVOLA. Tu Th 9-11:50.

### Printmaking R1041x. 2 points.

Laboratory fee, \$6.50 per term. MR. MOY. W 1:10-5.

### Printmaking R1044y. 2 points.

Laboratory fee, \$6.50 per term. MR. MOY. W 1:10-5.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the chairman of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. The following courses are specifically recommended as suitable for Barnard seniors:

- G4245y. Greek Sculpture and Painting of the Fifth Century B.C.** PROFESSOR  
BRENDL. 3 points.
- G4215x. Greek Myths and Monuments.** DR. HENLE. 3 points.
- G4127x. The Art of Greater India.** PROFESSOR MAHLER. 3 points.  
Th 2:10–4.
- G4354x. Gothic Art in France.** PROFESSOR BRANNER. 3 points.  
W 10–11:50.
- G4520y. Baroque Sculpture.** PROFESSOR WITTKOWER. 3 points.
- G4560x. Dutch Painting of the Seventeenth Century.** PROFESSOR HELD.  
3 points. W 4:10–6.
- G4642x. Modern Art and Tradition.** PROFESSOR REFF. 3 points.
- G4640y. Modern Painting since 1900.** PROFESSOR SCHAPIRO. 3 points.  
M W 3:10.



# BOTANY

PROFESSOR: DONALD D. RITCHIE (Chairman)

ASSOCIATE PROFESSOR: WILLIAM A. CORPE

ASSISTANTS: ROBERT J. MANASSE, ELEANOR L. NOBACK

A major in botany should become familiar with the properties and functions of living matter, as exemplified by plants in various evolutionary groups from bacteria to grasses. Emphasis is on the relation of structure to biological function; on photosynthetic plants as the primary energy-conserving agents of the earth; and on approaches which are fruitful in explaining biological events. The science of botany has many areas yet to be explored, and botanists find opportunities for work, particularly in microbiology, in the laboratories of industry, government, universities, and scientific institutions.

Students majoring in botany take Course 1–2 and additional courses to make a total of 28 points. In preparation for graduate work, Courses 5, 6; G6151x and 11 are recommended. Other combinations are permitted, however, and are determined by the plans of the student who seeks immediate employment, plans to teach in secondary or elementary schools, or desires an introduction to the plant world.

Botany majors are expected to take a year of chemistry. Those who intend to do graduate study must have organic chemistry, and as much work in physics, zoology, and the other sciences as time permits. Russian, German, and French, or some combination of these, will be necessary for advanced degrees.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research, and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

The major examination consists of a two-hour written test on the field, an oral session, and the Graduate Record Examination.

Because of the increasing pressure of the human species for space, food, and energy, the Departments of Botany and of Geology-Geography offer a joint major in the Conservation of Natural Resources. Students concerned with the future well-being of the United States and of man in general should read the announcement of this program on page 52, under Interdepartmental Offerings.

## **1–2. General Botany.      8 points.      [6]**

The history of ideas concerning the structure and behavior of living material as exemplified by the development of botanical knowledge, with emphasis on unsolved problems and the nature of scientific evidence; energy relations between plants and the rest of the world, especially with respect to carbon and oxygen exchanges; mechanisms of inheritance and evolution, from micro-organisms through seed plants. Some attention is given to human applications: food supply, commercial products, and plant and animal diseases.      PROFESSOR RITCHIE and staff.      Lec. Tu Th 9–10:10.      Lab. (2 hours) Tu 10:15–12; 2:10–4 or W 2:10–4.

- 1a–2a. General Botany.** 6 points. [6]  
Lectures identical with those of Course 1–2. No laboratory work. To follow or parallel: a laboratory science. PROFESSOR RITCHIE and staff. Tu Th 9–10:10.
- F1003x–F1004y. Plant Geography.** 6 points  
Distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants. Prerequisite: Course 1–2. Registration limited. Admission only on written permission of the instructor. PROFESSOR LIER. M Th 6:10 p.m. Field work at hours to be arranged.
- 5, 6. Cytology.** 10 points. [2]  
Biology of the cell: structure and function of the cell wall, nucleus, cytoplasm and its inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, phase microscopy, etc. Prerequisite: at least a year of college work in either botany or zoology. PROFESSOR RITCHIE. Lec. M F 10. Lab. (6 hours) W 10–12, plus 4 hours to be arranged.
- [7. Plant Resources.** 3 points.  
Not given in 1964-65.]
- [8. Structure and Relationships of Flowering Plants.** 4 points.  
Not given in 1964-65.]
- 10. Elementary Microbiology.** 4 points. [5]  
Introduction to study of bacteriological methods, representative types of microorganisms, and their importance in human economy. PROFESSOR CORPE. Lec. M W 2:10. Lab. (4 hours) M W 3:10–5.
- G6151x. Introduction to Microbiology.** 4 points.  
Culture, morphology, general physiology and ecology of representative microbial species; their role in nature and disease. Prerequisite: one year of college work in botany or zoology and preceding or parallel, organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required. Open to juniors and seniors. PROFESSOR CORPE. Lec. Tu Th 2:10. Lab. (4 hours) Tu Th 3:10–5.
- G6152y. Advanced Microbiology.** 4 points.  
Cytology, growth, death and biochemical activities of bacteria, with special attention to modern laboratory methods used in experimentation with microorganisms. Prerequisite: Course G6161x or the equivalent. Written permission of the instructor is required. PROFESSOR CORPE. Lec. Tu Th 2:10. Lab. (4 hours) Tu Th 3:10–5.
- 11, 12. Special Problems in Microbiology, Morphology, and Physiology.** 2 to 6 points. [0]  
Work planned to suit the needs and interests of the students. This course may be taken in successive years. Staff. Hours and credit by arrangement.

# CHEMISTRY

PROFESSORS: EDWARD J. KING (Chairman), EMMA D. STECHER

INSTRUCTOR: -----

LECTURERS: GRACE W. KING, MARIAN MEYERS, BERNICE SEGAL

ASSISTANTS: -----, -----, -----, -----

A major in chemistry is designed: (1) to make clear the orderly nature of the physical universe as exemplified in chemical processes, and to indicate the methods by which this order has been, and still is being, elucidated; (2) to provide the student with an understanding of the fundamental importance of chemistry both in modern industry and in the biological world; and (3) to provide the necessary pre-professional training for careers in teaching, in medicine, or in chemical research.

A student who is interested in chemistry should consult a representative of the department for advice in planning her program. In the first year she should take Course 1-8 and Mathematics 7 and 15y, or 15x and 16y. A list of major requirements, several possible course sequences, and information about the major examination may be obtained from members of the department. Majors who complete a specific program receive an accrediting certificate from the American Chemical Society.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. The equipment includes single-pan balances; pH meters; both manual and automatically recording titrators; spectrophotometers for measuring the absorption of visible, ultraviolet, and infrared light; a flame photometer; apparatus for paper, column, thin-layer, and gas chromatography; high vacuum lines; Geiger-Müller counters and other equipment for work in radiochemistry. Experience with modern instruments begins in the first-year course.

Students may undertake independent projects under the guidance of members of the department. This has been done recently during both the academic year and the summer, and some of the work has been published in chemical journals. Short projects may also be undertaken in several of the courses of the first three years.

## 1. General Elementary Chemistry. 4 points. [6]

A study of chemical principles with applications to inorganic chemistry. No credit will be given for Course 1 unless Course 2 or Course 8 is completed. PROFESSOR KING, DR. KING, and assistants. Lec. Tu Th 9:10-10:25.

Recitation and laboratory for students with no previous chemistry M 1:10-4:30.

Recitation and laboratory for all other students, one afternoon: Tu 2:10-5:30 or W or F 1:10-4:30 or Th 12:40-4.

## 2. General Chemistry. 4 points. [1]

Properties of inorganic, organic, and biochemical systems are surveyed and inter-



preted. A terminal course for non-science majors. Prerequisite: Course 1. PROFESSOR KING, DR. KING, and assistants.

Lec. M W F 9. Recitation and laboratory: one afternoon M 1:10–4:30 or Tu 2:10–5:30.

## **1a–2a. General Elementary Chemistry. 6 points.**

Lectures and recitations identical with those of Course 1–2. No laboratory work. Prerequisite: preceding or parallel, a laboratory science. PROFESSOR KING and DR. KING.

Winter Term: Lec. Tu Th 9:10–10:25; recitation hour M 1:10 or Tu 2:10. [6]

Spring Term: Lec. M W F 9; recitation hour M 1:10 or Tu 2:10. [1]

## **8. Qualitative Analysis and Electrolytic Solutions. 5 points. [6]**

A study of ionic compounds and ionic equilibria. Prerequisite: Course 1. Course 8 is a prerequisite for further work in chemistry. PROFESSOR KING, DR. KING, and assistants. Lec. Tu Th 9:10–10:25. Laboratory one afternoon: W or F 1:10–5 or Th 2:10–6.

## **41. Organic Chemistry. Lectures (41a, 4 points). Laboratory (41b, 2 points). [3]**

Typical reactions of aliphatic compounds with an introduction to aromatic chemistry. Laboratory work in organic preparations. This course satisfies the minimum requirement for many medical schools. Prerequisite: Course 8. Laboratory deposit, \$20. PROFESSOR STECHER and assistants. Lec. M W F 11–12:15. Lab. M or W 1:10–5 or Tu 2:10–6.

## **42. Organic Chemistry. Lectures (42a, 4 points). Laboratory (42b, 2 points). [3]**

Lectures emphasize aromatic chemistry and modern theories. Laboratory work includes an introduction to qualitative organic analysis and to advanced techniques with a library problem and a short project. Prerequisite: Course 41. With permission non-majors may take the lectures without the laboratory. Laboratory deposit, \$20. PROFESSOR STECHER and assistants. Lec. M W F 11–12:15. Lab. M W 1:10–5, and, if warranted by the registration, Tu Th 2:10–6.

## **51. Quantitative Chemistry. 6 points. [6]**

The principles and techniques of quantitative measurement and their application to various chemical problems. Prerequisite: Courses 8 and 42. Laboratory deposit, \$20. ————— and assistant. Lec. Tu Th 9:10–10:25. Lab. M W 1:10–5 or Tu Th 2:10–6.

## **55, 56. Physical Chemistry. 6 points. [2]**

Chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium. Majors must elect Course 58 parallel to 56. Prerequisite: Course 8; Mathematics 15, 16; Physics 3–4. DR. SEGAL. Lec. M W F 10.

## **58. Physical Chemistry Laboratory. 3 points. [0]**

Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics,

## BARNARD COLLEGE

electrochemistry and radiochemistry. Prerequisite: Courses 8, 51; Mathematics 15, 16; Physics 3-4. Laboratory deposit, \$20. ————. Lab. M W 1:10-4 or Tu Th 2:10-5.

**63. Advanced Analytical Chemistry.** 3 points. [4]

Lectures and laboratory work on quantitative analysis with instruments. Prerequisite: Courses 51, 56. Laboratory deposit, \$20. DR. SEGAL. Lec. M 1:10. Lab. M 2:10-5, W 1:10-4.

**C3072y. Introductory Biochemistry.** 3 points.

Mechanistic and quantitative aspects of intermediate metabolism, with some discussion of macromolecular properties. Prerequisite: Course 42. PROFESSOR BRESLOW. Tu 9-10:50 and Th 10.

**85. Organic Chemistry, Advanced Course.** 3 points. [7]

Application of modern theories to the interpretation of the mechanisms of various types of organic reactions. Prerequisite: Course 42. PROFESSOR STECHER. Tu Th 10:35-11:50.

**87, 88. Problems in Chemistry.** 2 to 4 points. [0]

Advanced individual laboratory projects for students who have completed the major requirements except Course 99. Laboratory deposit, \$20 each session. PROFESSORS KING, STECHER, DR. SEGAL, ————. Hours and credit by arrangement.

**99. Conferences in Chemistry.** 2 points. [5]

Readings and discussion of selected topics. Required of majors in their senior year. DR. SEGAL. F 2:10-4.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors.

The following is suggested:

**G4104y. Advanced Inorganic Chemistry.**

A description of this and other courses may be found in the Announcement of the Graduate Faculties.

# DRAMA

DIRECTOR OF THE MINOR LATHAM PLAYHOUSE: KENNETH H. JANES

TECHNICAL DIRECTOR: ELLEN TERRY

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult MR. JANES.

Students take part in the productions of *Wigs and Cues*; the *Gilbert and Sullivan Society*; the experimental and classical drama workshops; the Spanish, French, German, and Italian Clubs; and the several dance and music groups. The *Barnard Bulletin's* dramatic column and WKCR (the campus radio station) offer other opportunities to develop abilities related to the theatre arts. Barnard's location in New York enables students to attend productions on and off Broadway.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements:

## ENGLISH

- |         |  |           |  |
|---------|--|-----------|--|
| 13, 14. | Dramatic Writing.  | 6 points. | PROFESSOR TEICHMANN.                   |
| 21, 22. | Voice and Diction.   | 6 points. | PROFESSOR NORMAN and<br>MISS CAUGHRAN. |
| 23, 24. | Oral Interpretation of Literature.                                       | 6 points. | MISS CAUGHRAN.                         |
| 27, 28. | Public Speaking.   | 4 points. | PROFESSOR NORMAN.                      |
| 33, 34. | Play Production.   | 6 points. | MR. JANES and MISS TERRY.              |
| 63, 64. | Shakespeare and the Elizabethan Mind.                                    | 6 points. | PROFESSORS<br>ROBERTSON and ULANOV.    |
| 69.     | English Drama from its Beginnings to 1642.                               | 3 points. | PROFESSOR<br>PATTERSON.                |
| 70.     | English Drama from the Restoration to the End of the Eighteenth Century. | 3 points. | PROFESSOR HOOK.                        |
| 86.     | Drama from Ibsen to the Present.   | 3 points. | PROFESSOR ULANOV.                      |

## FRENCH

- |                        |  |           |                       |
|------------------------|--|-----------|-----------------------|
| 17-18.                 | French Phonetics.                            | 6 points. | PROFESSOR PLEASANTS.  |
| [30.                   | The French Theatre in the Twentieth Century. | 2 points. | PROFESSOR<br>BREUNIG. |
| Not given in 1964-65.] |  |           |                       |



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### GERMAN

[25, 26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. PROFESSOR STABENAU.

Not given in 1964-65.]

### GREEK AND LATIN

Classical Civilization C3123x. Greek Drama and its Influences. 3 points.  
PROFESSOR GERSHENSON.

Greek V3305x. Greek Tragedy. 3 points. PROFESSOR BACON.

[Greek V3307x. Greek Comedy. 3 points. PROFESSOR BENEDICT.

Not given in 1964-65.]

### ITALIAN

[V3642y. The Italian Theatre. 3 or 4 points. PROFESSOR LORCH.

Not given in 1964-65.]

### MUSIC

V1005y. The Opera. 3 points. PROFESSOR RHODES.

V3239x—V3240y. Composition. 4 points. PROFESSORS LUENING and  
USSACHEVSKY.

### PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in modern dance and fencing are particularly useful.

### SPANISH

17—18. The Spanish Drama of the Golden Age. 6 points. PROFESSOR DEL  
Río.

# ECONOMICS

PROFESSORS: <sup>1</sup>MARION HAMILTON GILLIM, ROBERT LEKACHMAN (Chairman),  
RAYMOND J. SAULNIER

INSTRUCTORS: SHIRLEY B. JOHNSON, -----.

ASSISTANT: PEARL VOGEL

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:  
PROFESSORS: LOUIS M. HACKER, AARON W. WARNER

Economics examines that substantial share of human activity which affects conditions of living. The major is planned to give each student an understanding of important aspects of economic life as a background both for informed citizenship and also for a career in business, government, research, or teaching. The courses offered treat the history of economic institutions and thought; current economic affairs, both national and international; and methods of economic research and analysis. A student may arrange her program to fit her special interests.

A student majoring in economics will be required to take Courses 1–2; 27 or 28, and 51–52. Course 17, 18 and a course in economic history are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology.

Each student in the required senior seminar will write an essay. There will be no major examination.

**1–2. Introductory Economics.      6 points.**

A study of the institutions and forces affecting the stability and growth of income and employment. Subjects covered include: business and labor organizations, national income and its determination, economic theory, economic fluctuations, monetary economics, government finance, international economic relations, and the problems of underdeveloped countries. May be counted towards the requirement in contemporary society.      PROFESSORS LEKACHMAN and ----- and Miss JOHNSON, and -----.

Section I	M W F 10.	[2]	Section II
M W F 11.	[3]	Section III	M W F 12:10. [13]
1:10.	[4]	Section IV	M W F 1:10.

**5, 6. European Economic History.      6 points.      [4]**

The rise of capitalism in western Europe. British industrial innovation and continental imitation. The development and decline of open world markets. Economic growth. The social and political conditions of economic change. Open to all except freshmen. Either term may be taken separately.      PROFESSOR LEKACHMAN.

M W F 1:10.

<sup>1</sup> Absent on leave, 1964–65.

## BARNARD COLLEGE

- 16. Government Finance and Fiscal Policy.** 3 points. [3]  
Government taxing, spending, and borrowing; their effects on employment, prices, and incomes; fiscal relations among federal, state, and local governments; and the federal budget. Prerequisite: Course 1-2 or permission of the instructor. PROFESSOR ----- M W F 11.
- 17, 18. Introductory Statistics.** 6 points. [1]  
Autumn Term: The gathering, processing, presentation, and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; non-linear correlations; and other techniques useful in the social sciences. Course 17 is a prerequisite of Course 18. PROFESSOR ----- Lec. M W 9. Lab. (2 hours) M W 3:10-5 or Tu 3:30-5:30.
- [19. Labor Economics.** 3 points.  
Not given in 1964-5.]
- 23. International Economics.** 3 points. [3]  
International trade and finance; foreign investment; barriers to trade; the foreign economic policy of the United States; trade agreements; and steps towards international economic cooperation and economic development. Prerequisite: Course 1-2 or permission of the instructor. PROFESSOR ----- M W F 11.
- 25, 26. Contemporary Economic Issues.** 6 points. [5]  
A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. May be counted towards the requirement in contemporary society. Open to all except freshmen. Either term may be taken separately. PROFESSOR SAULNIER. M W 2:10-3:25.
- 27. Development of Economic Thought.** 3 points. [2]  
Economic thought from Adam Smith to Alfred Marshall, with some attention to the dissenting views of Marx and Veblen. Original sources. Open to all except freshmen. PROFESSOR LEKACHMAN. M W F 10.
- 28. Economic Analysis.** 3 points. [2]  
Covers the major topics of modern theory: prices, income distribution, modern demand theory, and Keynesian economics. Prerequisite: Course 1-2. PROFESSOR LEKACHMAN. M W F 10.
- 30. The Economics of Underdeveloped Areas.** 3 points. [7]  
The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. Prerequisite: Course 1-2; Course 23 is strongly recommended. Miss JOHNSON. Tu Th 10:35-11:50.
- 31. The Soviet Economy.** 3 points. [7]  
A description of Soviet economic planning and of the organization of the U.S.S.R.'s economic system. May be counted towards the requirement in contemporary society. Prerequisite: Course 1-2 or the permission of the chairman of the department. Miss JOHNSON. Tu Th 10:35-11:50.



**C3035x—C3036y. American Economic History. 6 points.**

Economic development of the United States from Colonial times; the course and consequences of territorial expansion; the general transition from a rural, agricultural society to an urban industrialism, from debtor to creditor status in the world economy. Some regional aspects of the economy. The changing roles of government, labor, and business, in terms of particular economic problems. Open with the permission of the chairman of the Barnard department to all except freshmen. PROFESSOR HACKER. Tu Th 10 and third hour to be arranged.

**W3251x. Industrial Organization. 3 points.**

Historical development and present structure of American industries; economic causes and significance of competition and monopoly; methods of measuring monopoly; antitrust policy and famous antitrust cases. Prerequisite: Course 1—2 or the equivalent. PROFESSOR WARNER. M W 1:10—2:25.

**W3253y. Seminar in Public Regulation of Industry. 3 points.**

Readings and reports on selected problems of government regulation in communications, transportation, public utilities, and other regulated industries. A research paper is required. Prerequisite: Course W3251x and the permission of the instructor and the chairman of the Barnard department. PROFESSOR WARNER. W 2:10—4.

**51—52. Economics Seminar. 6 points. [0]**

The senior essay. Reading, reports and discussion. Required for senior majors. PROFESSOR SAULNIER. W 3:30—5:30.

**C3179x—C3180y. Seminar in American Economic History. 8 points.**

Prerequisite: Course C3035x—C3036y, the written permission of the instructor, and the permission of the chairman of the Barnard department. PROFESSOR HACKER. W 7:10—9 p.m.

**61, 62. Studies in Economics. Variable points. [0]**

Additional credits may be obtained in this course for independent work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The course may be repeated. MEMBERS OF THE DEPARTMENT.

**G4713x—G4714y. Financial Institutions. 6 points.**

A study of the functioning of the principal public and private agencies comprising the financial system of the United States, and of corporate financial policies, from the viewpoint of their relation to the flow of money payments and the process of capital formation. Open to seniors. Prerequisite: Course 1—2 and at least two other courses in economics. Either term may be taken separately. PROFESSOR SAULNIER. Tu 2:10—4.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors. A description of these courses will be found in the Announcements of the Graduate Faculties and the Graduate School of Business.

## EDUCATION

The following interdepartmental program is supervised by the Committee on Education:

HELEN P. BAILEY, Dean of Studies, Chairman, Associate Professor of French

JOSEPHINE MAYER, Director of the Education Program, Associate in Education

JOSEPH G. BRENNAN, Professor of Philosophy

JOHN A. MOORE, Professor of Zoology

RICHARD A. NORMAN, Associate Professor of English

BARBARA S. SCHMITTER, Associate Dean of Studies, Assistant Professor of Psychology

THE PRESIDENT, *ex officio*

The Education Program does not constitute a major; it is taken in conjunction with a major in some other subject.

The program is open to qualified Barnard seniors whose applications are approved by the Committee on Education. It is designed to offer, within the context of a liberal arts curriculum, an introduction to the field of education. With the psychology prerequisite, it affords 15 points towards provisional certification for teaching in junior and senior high school in New York State. Full provisional certification in New York and other states requires courses of study beyond the Barnard offering.

All students are enrolled in Education 3–4 which is directly concerned with the principles and practice of classroom teaching. In addition, they take either Education-History W3051x in the autumn term or Philosophy 84 in the spring.

Before the end of the sophomore year, students interested in teaching should confer with the director of the Education Program. Juniors who wish to apply for admission to the program should file application forms which may be obtained in the office of the Education Program at the beginning of the spring term.

### **Education 3–4. Introduction to Teaching in the Secondary School. 8 points [9]**

This course affords observation and student teaching in public and private schools. The experiences of observation and participation furnish the basis for study of principles, methods, and materials for effective teaching in the secondary school. Prerequisite: four points of psychology taken in one or two of the following courses: 5; 5a; 27; 27a. MISS MAYER. A minimum of two full mornings a week and Tu 2:10–4.

### **Education–History W3051x. History of Education in the United States. 3 points.**

The development of American education in the context of social and intellectual history. Normally open without payment of additional fee only to students in the Education Program. PROFESSOR MESSERLI. M 2:10–4.

### **Philosophy 84. The Philosophy of Education. 3 points. [4]**

The values and goals of education; a study of contemporary problems against their historical background. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. PROFESSOR BRENNAN. M W F 1:10.

# ENGLISH

PROFESSORS: W. CABELL GREET, LUCYLE HOOK, <sup>1</sup>JOHN A. KOUWENHAVEN, DAVID A. ROBERTSON, JR. (Chairman), ELEANOR ROSENBERG (Director of Registration), ELEANOR M. TILTON

ASSOCIATE PROFESSORS: RICHARD NORMAN, <sup>2</sup>REMINGTON P. PATTERSON, BARRY ULANOV

ADJUNCT ASSOCIATE PROFESSOR: HOWARD M. TEICHMANN

ASSISTANT PROFESSORS: BARBARA M. CROSS (Director of English A), RUTH MONTGOMERY KIVETTE, MARCUS KLEIN, JOANN RYAN MORSE, ALAN C. PURVES

ASSOCIATES: ELIZABETH CAUGHRAN, ROBERT PACK

INSTRUCTOR: JANICE FARRAR THADDEUS (Examinations Officer)

LECTURERS: RUTH CARPENTER, MARJORIE HOUSEPIAN DOBKIN, KENNETH H. JANES, NAOMI LOEB LIPMAN, ANNE LAKE PRESCOTT, CATHARINE STIMPSON, ELLEN TERRY

ASSISTANTS: MARGARET D. HANCE, MARY ELIZABETH SMITH

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:  
PROFESSOR: JAMES L. CLIFFORD

The objective of a student majoring in English is to acquire a knowledge of the development of the English language and of literary history, to become familiar with the principal writers in English, to increase her ability to interpret and evaluate a variety of literary texts, and to improve her oral and written expression. The student in consultation with her major adviser will plan her program to include the following: Course 51 or 53 or 55; three courses numbered 56–69; three courses numbered 70–80; Course 93 in the junior year and Course 91, 92 in both junior and senior years. In addition, a *major in literature* will take one section of Course 97 and one other half-year course in literature; she may elect as this other course a second section of Course 97. A *major in writing* will take three courses numbered 3–14. A *major in speech* will take Course 21 and two additional courses in speech.

The program may include additional courses from the department's offerings and should include work in such related fields as art history, English history, philosophy, and foreign literature. Students who plan to do graduate work will do well to extend their reading knowledge of foreign languages.

Examinations: 1. The Junior English Test, given twice a year, in November and March, is a test of general knowledge of authors, titles, dates, and literary terms. A major must take this test by November of her junior year. Prospective majors may take the test in their sophomore year.

2. The Major Examination is in two parts. Part I (three hours) requires the composition of an essay on a literary topic. Part II (three hours) requires critical interpretation and evaluation of passages of poetry and prose.

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<sup>1</sup> Absent on leave, Autumn Term.

<sup>2</sup> Absent on leave, Spring Term.



# BARNARD COLLEGE

## INTRODUCTORY

All transfer students and foreign students are required to take the English Proficiency Test before registering for any English course.

### **A1–A2. Reading and Writing. 6 points [0]**

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for all freshmen. The only other English courses open to freshmen are Courses 19, 20; 21, 22; 21y; 27, 28, any of which may be taken parallel to A1–A2. PROFESSOR CROSS and MEMBERS OF THE DEPARTMENT.

Sections of Course A1–A2 meet at the following hours: M W F 9, 10, 11, 1:10, 2:10. Tu Th 9:10–10:25, 10:35–11:50, 2:10–3:25.

Room assignments will be posted outside 401 Barnard Hall.

## WRITING

Two writing courses may not be taken concurrently unless one of the two is Course 13, 14, or 15 (Course 93 is a writing course). Registration in each course is limited, and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. Hance (401 Barnard Hall).

### **[1, 2. English Composition. 6 points.**

Not given in 1964-65.]

### **3, 4. Structure and Style. 6 points. [0]**

I. Designed to give students an opportunity to experiment, according to their interests and needs, in varied forms: the story, the poem, the essay. Students may take either term or both. PROFESSOR KLEIN. Tu Th 2:10–3:25.

II. Designed to give students training beyond the first-year level in the writing of expository prose. Frequent individual conferences. Students may take either term or both. PROFESSOR CROSS. Tu Th 2:10–3:25.

### **6. Advanced Composition. 6 points. [0]**

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either term or both. PROFESSOR KOUWENHOVEN. M W F 2:10.

### **7, 8. Experiments in Writing. 6 points. [0]**

Advanced work in the writing and close reading of poems and other literary forms. Outside readings. Individual conferences on the written work. MR. PACK. Tu 3:35–5:25.

### **[11, 12. Story Writing. 6 points.**

Not given in 1964-65.]

**13, 14. Dramatic Writing. 6 points. [0]**

The development of a dramatic situation in terms of short fiction, the theatre, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape. PROFESSOR TEICHMANN. Tu Th 2:10–3:25.

**[15. The Principles and Practice of Prosodic Analysis. 3 points. PROFESSOR PURVES.**

Not given in 1964-65.]

**SPEECH AND DRAMA**

The work of English majors with a special interest in speech should include Course 21, 22 and two half-year courses in public speaking, discussion and debate, or oral interpretation. To elect any course in speech, a student must secure the written permission of PROFESSOR NORMAN. The dramatic club, *Wigs and Cues*, the college debating society, and the campus radio station, *WKCR*, offer practical experience.

Students who have a special interest in the drama will find a summary of activities and courses related to that field on page 67.

**19x [or 19y]. Informal Speaking. 1 point. [0]**

Practice in speaking to small groups; designed for students who wish help in making themselves understood and who need experience in thinking on their feet. PROFESSOR NORMAN. Th 2:10.

**21, 22. Voice and Diction. 6 points. [0]**

Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking. Use of the language laboratory. Autumn Term: training in voice production and clear articulation. Spring Term: English dialects and standards of pronunciation. Registration limited to 15 students. PROFESSOR NORMAN and MISS CAUGHRAN. Section I M W F 9. Section II M W F 11.

**21y. Voice and Diction. 3 points. [0]**

Same as Course 21, but given in the Spring Term. PROFESSOR NORMAN and MISS CAUGHRAN. Section I M W F 9. Section II M W F 11.

**23, 24. Oral Interpretation of Literature. 6 points. [0]**

Study of literary texts for oral presentation. Autumn Term: poetry. Spring Term: dramatic poetry and drama. MISS CAUGHRAN. M W F 10.

**27, 28. Public Speaking. 4 points. [0]**

Autumn Term: study of the basic principles of speech making, with emphasis on evaluating and organizing material and on effectiveness of delivery. Intended primarily for students who plan to teach. Spring Term: theory and practice of argumentation; use of evidence and opinion; training in effective participation in group discussion. PROFESSOR NORMAN. T Th 4:10.

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### 33, 34. Play Production. 6 points. [0]

A study of the ways in which the dramatic arts fulfill the intention of the playwright. Theatre dynamics in terms of actors, directors, and all technical aspects of staging. Permission of the instructors required. MR. JANES and MISS TERRY. MF 3:10-5.

## LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

### §41, §42. Introduction to English Literature. 6 points.

A general view of the scope and variety of English literature through study of selected writers and their works. This course is recommended, particularly to sophomores, for the satisfaction of the literature requirement. Autumn Term: *Beowulf* through Milton. Spring Term: Dryden to the present. PROFESSORS KIVETTE, KLEIN, MORSE, and PATTERSON, and MRS. THADDEUS. Section I M W F 9. [1] Section II M W F 1:10. [4] Section III Tu Th 2:10-3:25. [9]

### §41y. Introduction to English Literature. 3 points. [4]

Same as Course 41, but given in the Spring Term. ----- M W F 1:10.

### [44. Masterpieces of the Middle Ages. 3 points. -----]

Not given in 1964-65.]

### 52. The English Language: History and Use. 3 points. [1]

An introduction to the history of words, pronunciation, and structure in the light of literary tradition and linguistic science. PROFESSOR GREET. W F 9.

### §53. Anglo-Saxon Language and Literature. 3 points. [1]

An introduction to the study of Anglo-Saxon. PROFESSOR GREET. W F 9.

### §54. *The Beowulf*. 3 points. [12]

Prerequisite: Course 53. PROFESSOR GREET. Tu 3:35-5:25.

### §55. Chaucer. 3 points. [7]

Chaucer's *Canterbury Tales*. PROFESSOR GREET. Tu Th 10:35-11:50.

### §56. Chaucer and his Contemporaries. 3 points. [7]

Poetry and prose of the fourteenth century. Readings will be chosen from *Troilus and Criseyde*, *Pearl*, *Gawain and the Green Knight*, and *Piers Plowman*. Prerequisite: Course 53 or 55, or permission of the instructor. PROFESSOR GREET. Tu Th 10:35-11:50.

### §63, §64. Shakespeare and the Elizabethan Mind. 6 points.

An introduction to the meaning, scope, and greatness of Shakespeare. The sonnets and all the plays are read in the course of the year, though only the more important are studied in class. PROFESSORS ROBERTSON and ULANOV. Autumn Term: M W F 11. [3] Spring Term: Tu Th 2:10-3:25. [9]



- §66. Spenser and the Tudor Renaissance.** 3 points. [2]  
Humanism, the Reformation, the New World; courtly poetry and popular prose from Skelton and More through Sidney and Nashe, with special attention to Edmund Spenser. PROFESSOR ROSENBERG. M W F 10.
- §67. Donne and Seventeenth-Century Literature.** 3 points. [4]  
Donne and the "metaphysicals"; Jonson and the Cavalier poets; Raleigh, Bacon, Browne, Burton, and the new science; prose and poetry in the age of Dryden. PROFESSOR ROSENBERG. M W F 1:10.
- §68. Milton.** 3 points. [4]  
A critical reading of Milton's minor poems, major prose works, *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes* in their seventeenth-century context, followed by an examination of eighteenth, nineteenth, and twentieth-century attitudes toward the major poems. PROFESSOR KIVETTE. M W F 1:10.
- §69. English Drama from its Beginnings to 1642.** 3 points. [2]  
Medieval drama, Tudor interludes, Elizabethan, Jacobean, and Caroline drama (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster. PROFESSOR PATTERSON. M W F 10.
- §70. English Drama from the Restoration to the End of the Eighteenth Century.** 3 points. [2]  
The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. Scenes from the plays will be presented for analysis. PROFESSOR HOOK. M W F 10.
- §71. The Novel.** 6 points. [5]  
The English novel before 1900, including works by Fielding, Richardson, Jane Austen, Brontë, Dickens, George Eliot, Hardy, and James. PROFESSOR CROSS. M W F 2:10.
- §73, §74. English Literature of the Eighteenth Century.** 6 points. [8]  
Autumn Term: Pope, Swift, and the Augustans. Spring Term: Dr. Johnson and his circle, and the pre-Romantics. PROFESSOR CLIFFORD. Th 2:30–3:20.  
On Tuesday and Thursday mornings the class will also attend the lectures of Course G4301x–G4302y.
- §76. English Poets of the Romantic Period.** 3 points [1]  
The poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, studied in their literary and historical context and in the light of present day criticism. PROFESSOR PURVES. M W F 9.
- §77. The Victorian Age in Literature.** 3 points. [5]  
Prose and verse concerning problems of society and of religion: Carlyle, Disraeli, Macaulay, Mill, Newman, Huxley, Tennyson, Browning, Arnold. PROFESSOR ROBERTSON. M W F 2:10.

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- §78. Victorian Poetry and Criticism.** 3 points. [5]  
Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. Essays by Ruskin, Arnold, Meredith, Pater, and Wilde. PROFESSOR ROBERTSON. M W F 2:10.
- §79. American Literature, 1620-1855.** 3 points. [6]  
The Puritan background, the Revolutionary period, and the major American Romantics: Hawthorne, Poe, Melville, Emerson and the Transcendentalists, Whitman. PROFESSOR TILTON. Tu Th 9:10-10:25.
- §80. American Literature, 1860-1960.** 3 points. [6]  
The major writers in the context of their cultural history: Mark Twain, Howells, James, and the moderns. PROFESSOR KLEIN. Tu Th 9:10-10:25.
- 82. Shapes of American Experience.** 3 points. [2]  
Studies of form and structure in literature and other arts. Prerequisite: Six points in courses dealing with American subject-matter. PROFESSOR KOUWENHOVEN. M W F 10.
- [83. Modern Literature and the Allied Arts.** 3 points. PROFESSOR ULANOV.  
Not given in 1964-65.]
- 84. Style in Literature and the Other Arts.** 3 points. [7]  
Studies in stylistic theory and practice in literature, painting, architecture, and music of the twelfth and sixteenth centuries and the Baroque and Romantic periods. PROFESSOR ULANOV. Tu Th 10:35-11:50.
- §85. Modern British and American Poetry.** 3 points. [9]  
The thought and style of Hardy, Hopkins, Yeats, Auden, Thomas, Robinson, Frost, Stevens, Eliot, and Cummings; the literary movements with which they are associated. MR. PACK. Tu Th 2:10-3:25.
- 86. Drama from Ibsen to the Present.** 3 points. [9]  
Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. Tu Th 2:10-3:25.
- 87. Major American Writers and Their Foreign Sources.** 3 points. [12]  
Independent study of related works by British, European, and American writers of the period 1836-1916. Prerequisite: Course 79 or 80 and a reading knowledge of a modern language. Permission of the instructor required. PROFESSOR TILTON. Tu 3:35-5:25.
- 88. The Contemporary Novel.** 3 points. [5]  
Works by Proust, Conrad, Lawrence, Mann, Faulkner, and others. A reading knowledge of French or German is required. PROFESSOR CROSS. M W F 2:10.

**91, 92. The English Conference. 2 points [0]**

The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors. This course is required of all English majors in both the junior and senior years. It is not open to other students. PROFESSORS ROBERTSON and ULANOV and MEMBERS OF THE DEPARTMENT. Th 3:35—4:25.

**93(or 93y). Literary Criticism: Analysis and Evaluation. 3 points. [0]**

The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers.

Course 93 (or 93y) is required of all English majors in the junior year. (Transfer students must take it in the Autumn Term.) It is not open to other students. Registration in each section is limited, and students must file a departmental registration form with Mrs. Hance before completing their programs. PROFESSORS HOOK, KIVETTE, MORSE, ROSENBERG, TILTON, and MRS. THADDEUS. Section I M 2:10—4. Section II W 3:10—5. Section III W 3:10—5.

## SENIOR SEMINARS

**97 (or 97y), 98. Studies in Literature. 6 points. [0]**

These seminars provide opportunities for intensive study in fields to which the student has been introduced through more general courses. All English majors who elect advanced work in literature, rather than in writing or speech, are required in their senior year to take one section of 97 or 97y.

Registration in each section of 97 and 98 is limited, and the written permission of the instructor is required. Registration blanks are to be secured from MRS. HANCE and returned to her (Room 401 Barnard Hall).

If registration allows, the seminars numbered 97 are open to students specializing in speech and writing and to non-majors who have taken three literature courses including the prerequisites, and the seminars numbered 98 are open to all seniors who satisfy the prerequisites. A course in the appropriate foreign literature may occasionally be substituted for one of the prerequisites.

**97. (Autumn Term)**

II. Dramatic Literature. Prerequisite: Six points selected from Courses 63, 64, 69, 70, 86, Classical Civilization C3123x, of which three points must be in 69. PROFESSOR HOOK. W 3:10—5.

III. Medieval Literature and Linguistics. Prerequisite: Six points selected from Courses 51, 53, 55, 56. PROFESSOR GREET. Tu 3:35—5:25.

IV. Renaissance Literature. Prerequisite: Three points selected from Courses 66, 67, 68. PROFESSOR ROSENBERG. W 3:10—5.

VII. Romantic Literature. Prerequisite: Three points selected from Course 76, French 28, German 15, 16. PROFESSOR PURVES. W 3:10—5.



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### 97y (Spring Term)

I. American Literature. Prerequisite: Course 79 and three points selected from Course 80, History 9–10. PROFESSOR TILTON. Tu 3:35–5:25.

[V. Elizabethan and Jacobean Drama. PROFESSOR PATTERSON.

Not given in 1964-65.]

VI. Augustan Literature. Prerequisite: Three points selected from Courses 67, 68, 70, 73, 74. PROFESSOR MORSE. W 3:10–5.

[VIII. Victorian Literature. PROFESSOR ROBERTSON.

Not given in 1964-65.]

### 98 (Spring Term)

I. Modern Poetry. Prerequisite: Course 85 or permission of the instructor. MR. PACK. W 3:10–5.

II. Theories of Literary Criticism. PROFESSOR HOOK. M 2:10–4.

# FRENCH

PROFESSOR: LEROY C. BREUNIG (Chairman)

ASSOCIATE PROFESSOR: HELEN PHELPS BAILEY

ASSISTANT PROFESSORS: ELIZABETH CZONICZER, RENÉE GEEN, TATIANA GREENE

ASSOCIATE: HELEN M. CARLSON

INSTRUCTORS: NATHALIE BABEL, SERGE GAVRONSKY, LOUISE JEFFERSON, HERMINE OBERFEST

LECTURERS: DOMNA CALLIMANOPULOS, DANIELLE HAASE-DUBOSC, PATRICIA TERRY

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:  
PROFESSOR: JEANNE VARNEY PLEASANTS

A major in French has two main objectives: (a) to perfect fluency in the written and the spoken language, and (b) to develop appreciation of the literature and culture of France.

The following courses are required for French majors: a choice of two among the three language courses: 12, 13 and 14; the phonetics course 17–18; either 7–8 or 9–10; and the equivalent of three full-year advanced literature courses. The Seminar, 37–38, may count as one of the literature courses and is particularly recommended for senior majors. Seniors with honor grades may elect the Senior Thesis, 39–40, as one of their literature courses.

Other fields: Courses in history, art history, or other fields which vary with the interest of the student should be elected after consultation with the department. The major examination consists of a six-hour section, written mainly in French, followed by a half-hour oral section.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in French must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken French, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6 with a minimum grade of C–, or Course 5 alone with a minimum grade of B+.

## LANGUAGE COURSES

All courses are conducted in French except Course 13.

### **1–2. Elementary Full-Year Course.      8 points      [14]**

Grammar, reading, composition. Work in the language laboratory is required. MRS. BABEL, DR. JEFFERSON, and -----.

Section I    M Tu W Th F 9.      Section II    M Tu W Th F 10.      Section III  
M Tu W Th F 11.

### **3, 4. Intermediate Course.      6 points.      [14]**

Review of grammar and syntax. Translation, reading, oral practice, free composition. Work in the language laboratory is required. Prerequisite: Course 1–2

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or two years of high school French and an appropriate score on the placement examination. PROFESSOR GREENE, MRS. BABEL, MISS CALLIMANOPULOS, MR. GAVRONSKY, MRS. HAASE-DUBOSC, DR. JEFFERSON, MRS. OBERFEST AND DR. TERRY.

Sections Ia, b and c M W F 10.

Section III M W F 1:10.

Sections IIa and IIb M W F 12:10.

Section IV Tu Th 10:35–11:50

### 4x. Intermediate Course. Part II. 3 points. [14]

The equivalent of Course 4 but given in the Autumn Term. Prerequisite: Course 3 or three years of high school French and an appropriate score on the placement examination. MISS CALLIMANOPULOS and MRS. HAASE-DUBOSC.

Section I M W F 10. Section II Tu Th 2:10–3:25.

### 5, 6. Third-year Course. 6 points. [14]

The study of literary texts as a basis for improving the comprehension of written and spoken French. Translations into English. Compositions and oral practice. Work in the language laboratory is required. Prerequisite: Course 3, 4 or three years of high school French and an appropriate score on the placement examination. PROFESSORS BREUNIG, CZONCIZER and GEEN, MISS CARLSON, MR. GAVRONSKY, and MRS. OBERFEST.

Sections Ia and Ib M W F 9.

Sections IIIa, b, and c M W F 12:10.

Sections IIa and IIb M W F 11.

Section IV Tu Th 10:35–11:50.

Section V Tu Th 2:10–3:25

### 5y. Third-year Course. Part I. 3 points. [14]

The equivalent of Course 5 but given in the Spring Term. Prerequisite: Course 4 or 4x. PROFESSOR CZONCIZER and MISS CALLIMANOPULOS. Section I M W F 10. Section II Tu Th 2:10–3:25.

### 6x. Third-year Course. Part II. 3 points. [14]

The equivalent of Course 6 but given in the Autumn Term. Prerequisite: Course 5, 5y, or three years of high school French and an appropriate score on the placement examination. PROFESSOR GREENE, MR. GAVRONSKY and DR. JEFFERSON. Sections Ia and Ib M W F 12:10. Section II Tu Th 2:10–3:25.

### 11. Grammar and Composition. 2 points. [0]

Weekly compositions designed to improve the writing skill. Review of grammar and syntax. Recommended for students in Course 5, 6. ————, M W 3:10.

### 12. Advanced Composition. 2 points. [0]

Intensive written practice, primarily for French majors. ————, M W 3:10.

### 13. Advanced Translation into English. 2 points. [0]

Translation from French of various styles of prose and poetry. Prerequisite: Course 5, 6. MISS CARLSON. M W 3:10.



- 14. Advanced Translation into French.** 2 points. [0]  
Translation from English of various styles of prose and poetry. Written permission of the instructor is required. PROFESSOR GEEN. M W 3:10.
- 15, 16. Oral French, Intermediate Course.** 4 points. [0]  
Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Section Ia recommended in conjunction with Course 5, 6; Section Ib in conjunction with Course 7–8 or 9–10. Limited to 10 students in each section. MRS. BABEL and MRS. HAASE-DUBOSC. Sections Ia and Ib M W 2:10.
- 17–18. French Phonetics.** 6 points. [0]  
Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the language laboratory is part of the course. Open to students on written permission of the instructor. Limited to 20 students. PROFESSOR PLEASANTS. M W F 9.

## LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

All Barnard courses are conducted in French except Course G4025x.

- §7–8. Masterpieces of Literature from the Middle Ages to the Twentieth Century.** 6 points. [14]  
Lectures and discussions in French on the history of French literature. Analysis of texts, essays, and reports on outside reading. Autumn Term: *La Chanson de Roland* through Molière. Spring Term: Voltaire through Proust. Prerequisite: Course 6 or a satisfactory score on the French placement test; or Course 5 with a grade of at least B+. Other students from Course 5 and, exceptionally, from Course 4, must have the written recommendation of their instructor. PROFESSORS GEEN and GREENE, MRS. OBERFEST, MISS CALLIMANOPULOS and DR. TERRY. Section I M W F 10. Section II M W F 11. Section III M W F 1:10. Section IV Tu Th 9:10–10:25.
- §7y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part 1.** 3 points. [1]  
The equivalent of Course 7 but given in the Spring Term. Credit for Course 7y only on completion of Course 8x. PROFESSOR BREUNIG. M W F 9.
- §8x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.** 3 points. [4]  
The equivalent of Course 8 but given in the Autumn Term. Prerequisite: Course 7y or the equivalent. MRS. HAASE-DUBOSC. M W F 1:10.
- 9–10. The Culture and Institutions of France.** 6 points. [2]  
A study of the formation and evolution of French thought and traditions. The use of original texts and audio-visual materials will be stressed. Prerequisite: the same as those listed for Course 7–8. MR. GAVRONSKY. M W F 10.

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### [§21, 22. French Literature in the Middle Ages and the Renaissance.

6 points. MISS CARLSON.

Not given in 1964-65.]

### §23, 24. French Literature in the Seventeenth Century. 6 points. [3]

Detailed study of selected masterpieces of the classical writers. The nature of French classicism. Prerequisite: Course 7-8 or 9-10 or the written permission of the instructor. PROFESSOR BREUNIG. M W F 11.

### §25, 26. French Literature in the Eighteenth Century. 6 points. [4]

The chief essayists, novelists and dramatists of the period in their most significant works and letters. Prerequisite: Course 7-8 or 9-10 or the written permission of the instructor. PROFESSOR GEEN. M W F 1:10.

### §27, 28. French Literature in the Nineteenth Century. 6 points. [6]

Representative works of the principal authors and literary movements from early Romanticism through Symbolism. Autumn Term: Fiction and drama. Spring Term: Poetry. Prerequisite: Course 7-8 or 9-10 or the written permission of the instructor. PROFESSORS BAILEY and GREENE. Tu Th 9:10-10:25.

### §29. The French Novel in the Twentieth Century. 3 points. [9]

The major novels and essays since Naturalism and Symbolism. Prerequisite: Course 7-8 or 9-10 or the written permission of the instructor. PROFESSOR CZONICZER. Tu Th 2:10-3:25.

### [§30. The French Theatre in the Twentieth Century. 2 points. PROFESSOR BREUNIG.

Not given in 1964-65.]

### [§32. Materials and Techniques of French Poetry. 3 points. PROFESSOR GREENE.

Not given in 1964-65.]

### §34. Stendhal. 3 points. [7]

A study of the major writings of Stendhal in the context of their time. Prerequisite: Course 7-8 or 9-10 or the written permission of the instructor. PROFESSOR BAILEY. Tu Th 10:35-11:50.

### 37, 38. Special Seminar. 4 to 6 points. [0]

Projects organized around a specific theme of French literature. PROFESSOR BREUNIG and MEMBERS OF THE DEPARTMENT. M W 2:10.

### 39-40. Senior Thesis. 6 points. [0]

Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. The essay satisfies in part the major examination requirement. PROFESSOR BREUNIG and MEMBERS OF THE DEPARTMENT. Hours for consultation to be arranged.

**G4025x. French Poetry in the Twentieth Century.** 3 points.

French poetry from Symbolism to the present with analyses of significant poems since 1885. Written permission of the instructor required. PROFESSOR BREUNIG.  
W 4:10–6.

The following courses at Columbia College are open to Barnard students who have had Course 7–8 or who receive written permission from the chairman of the Columbia College Department of French. French majors may take them in addition to, but not in lieu of, the three required full-year literature courses:

**C3513x. Montaigne.** 2 points.

PROFESSOR FRAME. Tu Th 10.

**C3525x. Pascal.** 2 points.

PROFESSOR BRUSH. Tu Th 2:10.

**C3541y. Voltaire and the Enlightenment.** 2 points.

PROFESSOR SAREIL. W 2:10–4.

**C3565y. Mallarmé and Hopkins.** 2 points.

PROFESSOR LEEFMANS. Tu Th 1:10.

**C3578y. Proust.** 2 points.

PROFESSOR O'BRIEN. Tu 2:10–4.

**C3661x–C3662y. The *Conte* and *Nouvelle*.** 6 points.

PROFESSOR SAREIL. Tu Th 11–12:15.

**C3667x–C3668y. French Drama.** 6 points.

MR. GROSS and MR. NOAKES. Tu Th 11–12:15.



# GEOLOGY AND GEOGRAPHY

PROFESSOR: HENRY S. SHARP

ASSOCIATE PROFESSOR: LEONARD ZOBLER (Chairman)

ASSISTANT: PATRICIA WHALEN

## GEOLOGY

A major in geology is designed to acquaint the student with the chief divisions of the science; to give her a basic fund of knowledge concerning the structure and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be given some first-hand outdoor acquaintance with geological phenomena, and will acquire some knowledge of the methods of geological research and the professional geologist's point of view towards the earth.

After Course 1-2, students majoring in geology will take Courses W1111x-W1112y; 19; W4661x, and 60 in partial fulfillment of the major requirement. With the permission of the department six points of calculus or of botany, chemistry, physics, or zoology may be counted towards the major. Field experience in some such course as Geology of the Rocky Mountains, offered in Wyoming each summer by Columbia University, is desirable. Remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology. Students planning to enter graduate school will take courses in related fields of science; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in geology at a minimum.

The major examination in geology will consist of the Graduate Record Examination and a six-hour written examination.

## GEOGRAPHY

Geography is the study of the reciprocal relation between earth and man, including the use of natural resources under varying conditions, and the influence of environmental change on man's activities. These relations vary from place to place and are expressed in regional patterns. A student majoring in geography should acquire an appreciation of the dependence of society on the natural features of the earth, such as climate, landforms, soils, water, minerals, and other factors of the natural resource endowment. With a scientific understanding of the earth and its resources, a major is able to prepare resource surveys and regional plans for advanced and backward areas. A background in selected aspects of earth science and social science is essential for the geography major.

The courses in earth science form a separate coherent program that provides an aggregate view of man's physical world. It should appeal to students interested in the purely scientific features of the planet, earth. Offerings in earth science include geology, geomorphology, meteorology, climatology, cartography, hydrology, and soils.

## GEOLOGY AND GEOGRAPHY

A geography major also may concentrate on the use of natural resources or a world region. In the latter case her program will include courses in the history, culture, and language of the selected area.

The major examination in geography will be satisfied by participation in the senior seminar and the completion of an acceptable senior thesis. Seniors are required also to pass a special examination on the use of maps.

### CONSERVATION OF NATURAL RESOURCES

Students interested in the human ecology of the earth as the home of man should consider the program in the conservation of natural resources. This major, a combination of earth science and biology, is sponsored jointly by the Departments of Botany and Geology-Geography. The announcement of this program appears under Interdepartmental Offerings, page 52.

### GEOGRAPHY

#### **1, 2. Earth Science. 6 points. [7]**

Introduction to the earth sciences. Autumn Term: The size and shape of the earth, the geographic system of earth coordinates (latitude and longitude), cartography and the use of maps, earth-sun relations and time, celestial navigation, descriptive meteorology and climatology. Spring Term: The crust of the earth, mineral and rock identification, evolution of landforms, physiographic regions, oceanography, hydrology, soils, mineral deposits. These courses satisfy the non-laboratory physical science requirement and are especially valuable for prospective teachers. They may be taken independently and in either order for credit. Students who have had Geology 1 should not take Geography 2. PROFESSOR ZOBLER. Tu Th 10:35–11:50.

#### **3. Agricultural Resources and Development. 3 points. [7]**

The regional geography of world agriculture and its relation to economic development. Special topics include agricultural climatology, environmentalism, resource allocation; population growth, food supplies, Malthusianism; soil and water use; land reform, production, trade; agrarian structures of backward and advanced nations. A one-day field trip to a farm usually is taken. Open to freshmen. Satisfies in part the contemporary society requirement. ————, T Th 10:35–11:50.

#### **4. Mineral Resources and Urban-Industrial Regions. 3 points. [7]**

The relation of the distribution and utilization of energy and mineral raw materials to the development of an urban-industrial society. Special topics include: energy and economic growth; mineral resources, production, and trade; industrial location and manufactural technology; transport flows and metropolitan regions; area development programs in backward and advanced nations. A one-day trip to a steel mill usually is taken. Open to freshmen. Satisfies in part the contemporary society requirement. ————, Tu Th 10:35–11:50.



## BARNARD COLLEGE

### **W4311x. Soil and Water Conservation. 3 points.**

A study of renewable and non-renewable resources emphasizing the basic scientific principles which guide the development of field conservation methods. Introduction to soil science and soil conservation, to hydrology, and surface and ground water conservation. Consideration is given also to economic, political, and administrative factors involved in policy formulation for such single and multi-purpose projects as TVA. Two one-day field trips are required. Prerequisite: One term of earth science or permission of the instructor. This course fulfills in part the contemporary society requirement. PROFESSOR ZOBLER. Tu Th 2:10–3:25.

### **W4312y. Mineral and Biological Conservation. 3 points.**

The development, use, and conservation of economic mineral deposits as stock resources. Examination of the principles of mineral economics and the formulation of national and international political policy. Introduction to the fundamentals of ecology and biological conservation with examples taken from forestry, range lands, fisheries, wildlife, and national parks. Two one-day field trips are required. Prerequisite: One term of physical or biological science. This course fulfills in part the contemporary society requirement. PROFESSOR ZOBLER. Tu Th 2:10–3:25.

### **17. Elementary Cartography. 3 points. [13]**

Introduction to the history, lore, and science of cartography. Practice in map selection, construction, and compilation; in the use of drafting equipment; in field mapping; and in qualitative symbolism. Prerequisite: one term of physical geology or geography, or permission of the instructor. ————. M W 4. Third hour to be arranged.

### **W4318y. Advanced Cartography. 3 points.**

The use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for centographic analysis. A survey of photogrammetry, including some instrumentation and interpretation, and of modern map reproduction methods. Experience in cartographic drafting, design, and evaluation. Permission of the instructor. ————. M W 4. Third hour to be arranged.

### **C3042y. Economic Geography of Latin America. 3 points.**

A topical and regional treatment, with emphasis on present patterns of economic activity and human occupancy, and on their relationships with the natural and cultural habitat. Analysis of problems related to population, industrialization, agriculture, trade, urbanization, pioneer zones, and the changing imprint of man upon the landscape. PROFESSOR WEBB. Tu Th 11–12:15.

### **C3071x. African Problems and Potentialities. 3 points.**

A regional survey of the economy of Africa, with emphasis on the potentialities and limitations of the physical environment and on the economic problems associated with the continent's development. PROFESSOR HANCE. Tu Th 11–12:15.

### **59, 60. Seminar in Geography and Natural Resources. 6 points. [0]**

Readings, discussions, and reports on various topics from the research literature. Preparation of the senior research paper. Required of senior majors. PROFESSOR ZOBLER. Th 4:10–5:25.



# GEOLOGY AND GEOGRAPHY

## GEOLOGY

### 1. Physical Geology. 4 points. [2]

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals and of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. Students who have had Geography 2 should not take Geology 1. PROFESSOR SHARP and MISS WHALEN. Lec. M W F 10. Lab. (2 hours) M 3:10–5; Tu 9–10:50, 3:35–5:25; W 11–12:50, 2:10–4; Th 8:35–10:25, 2:10–4.

### 2. Historical Geology. 4 points. [2]

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip. Prerequisite: Course 1. PROFESSOR SHARP and MISS WHALEN. Lec. M W F 10. Lab. (2 hours) M 3:10–5; Tu 9–10:50; 3:35–5:25; W 11–12:50, 2:10–4; Th 8:35–10:25, 2:10–4.

### W1111x–W1112y. Elements of Mineralogy and Petrology. 3 points.

The fundamentals of mineralogy and petrology. Autumn Term: Crystallography, the physical properties, origin, and the economic and geologic importance of the common minerals, with emphasis on the use of physical properties and chemical testing in mineral identification. Spring Term: Primarily a basic course in petrology: the properties and relations of the rock-forming minerals, and the genesis, mode of emplacement, and alteration phenomena of the major rock types—igneous, metamorphic, and sedimentary. The laboratory work is devoted to the study of the mineral make-up and physical properties of rocks, their identification and classification. Prerequisite: Course 1. PROFESSOR HOLMES. Lec. Tu Th 11. Lab. Tu 2:10–4.

### 19. Structural Geology. 3 points. [5]

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips. Prerequisite: Courses 1 and 2 or the equivalent. Courses 19 and 27 are ordinarily given in alternate years. PROFESSOR SHARP. M W F 2.

### W4661x. Introduction to Paleontology. 3 points.

A systematic survey of the morphology, taxonomy, and geologic history of groups of organisms commonly found as fossils. Prerequisite: Courses 1 and 2. PROFESSOR IMBRIE. Lec. M W 11. Lab. F 2:10–4.

### W4226x. Experimental Marine Sedimentology. 3 points.

Training in theory and techniques of modern marine sedimentology, especially the chemical processes associated with deposition and diagenesis. PROFESSOR FAIRBRIDGE. Lec. W F 2:10. Lab. W or F 3:10–5.

## **BARNARD COLLEGE**

**[27. Principles of Geomorphology. 3 points. PROFESSOR SHARP.**

Courses 19 and 27 are ordinarily given in alternate years.

Not given in 1964-65.]

**[G4330y. Geomorphology of the Western United States. 3 points. PROFESSOR SHARP.**

Not given in 1964-65.]

**G4332y. Geomorphology of the Eastern United States. 3 points.**

Lectures, map study, and readings on the geomorphic division of the Eastern United States. Prerequisite: one year of geology. Alternates with a similar course on the Western United States. PROFESSOR SHARP. M W F 2:10.

**W4053x. Geology of the New York Region. 1 point.**

Approximately six days of field study of selected areas within two hundred miles of New York City. Some overnight trips during week-ends. An illustrated field note book will be maintained by each student. Prerequisite: one year of geology. Expenses: \$60 to \$70. PROFESSOR FAIRBRIDGE and assistants. Dates to be arranged.

**60. Seminar in Geology. 3 points. [0]**

A seminar course with discussions, problems, and readings on various problems in geology. Prerequisite: a year of geology. Required of senior majors. PROFESSOR SHARP. W 3:10-5.

# GERMAN

ASSOCIATE PROFESSOR: LOUISE G. STABENAU (Chairman)  
ASSISTANT PROFESSORS: URSULA L. JARVIS, GERTRUD SAKRAWA  
INSTRUCTORS: BRIGITTE BRADLEY, HELMUT GUTMANN  
LECTURER: ROLF LEIBINGER

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of ease in expressing herself in German, in speaking as well as in writing and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is required to take a minimum of 28 points above the intermediate level, including four points of Course 9, 10, Advanced Practice, and Course 61.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take at least two years of college German.

The major examination consists of two three-hour written sections and an oral section of at least one hour. The senior essay will replace one of the written sections.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in German must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken German, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6 with a minimum grade of C-, or Course 5 alone with a minimum grade of B+.

## LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1. All students in Courses 1-2; 3, 4; and 5, 6 will be expected to use the facilities of the language laboratory.

**1-2. Elementary Full-Year Course.      8 points.      [15]**

Elements of grammar, easy reading, written and oral practice.      PROFESSORS JARVIS and SAKRAWA, MRS. BRADLEY and MR. GUTMAN.      Section I    M W F 9.  
Section II    M W F 11.      Section III    M W F 12:10.      Section IV    M W F 2:10.      Required oral sections may be chosen as follows:    Sections I and II    Tu Th 9.      Section III    Tu Th 11.      Section IV    Tu Th 2:10.

**3, 4. Intermediate Course.      6 points.      [15]**

Reading and discussion of works by representative modern authors. Compositions in German. Grammar review. Prerequisite: Course 1-2 or a satisfactory grade on



## BARNARD COLLEGE

the placement examination. PROFESSOR SAKRAWA, MR. GUTMANN and MR. LEIBINGER. Section I M W F 11. Section II M W F 12:10. Section III M W F 1:10.

**7, 8. Intermediate Practice.** 2 or 4 points. [0]

Intensive oral practice (one point per term); intensive written practice may be taken for one additional point, with third hour to be arranged. MRS. BRADLEY. M W 10.

**9, 10. Advanced Practice.** 2 points. [0]

Required of all majors in their junior and senior years. Recommended to all students in advanced literature courses. Aimed at perfecting oral and written expression. Individual conferences with instructor and work in the language laboratory. MR. GUTMANN and -----, Hours to be arranged.

## LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

All courses are conducted in German except Courses 55 and 56.

**§5, 6. Introduction to the Study of German Literature.** 6 points. [15]

Intensive reading and critical interpretation of significant works from the eighteenth to the twentieth century. Class discussion and short papers in German. Practice in translation. Prerequisite: Course 4 or a satisfactory grade on the placement examination. PROFESSORS JARVIS and STABENAU and MR. GUTMANN. Section I M W F 9. Section II M W F 11.

**[§15, 16. The Age of Goethe.** 6 points. PROFESSOR JARVIS.

Not given in 1964-65.]

**[§25, 26. German Drama in the Nineteenth and Twentieth Centuries.**

4 or 6 points. PROFESSOR STABENAU.

Not given in 1964-65.]

**§28. The Novella.** 3 points. [7]

Study of the genre in representative novellas by Goethe, Kleist, Keller, Storm, C. F. Meyer, Hesse, and Thomas Mann. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR SAKRAWA. Tu Th 10:35-11:50.

**[§31. German Lyric Poetry.** 2 or 3 points. PROFESSOR SAKRAWA.

Not given in 1964-65.]

**§35. Goethe's Faust.** 2 or 3 points. [6]

Intensive study of Parts I and II in relation to the poet's life and time with a comparative survey of the history of the Faust motif in earlier centuries. Papers for the third point. Prerequisite: Course 5, 6 or the permission of the department. PROFESSOR STABENAU. Tu Th 9.

**§45, 46. German Literature from the Earliest Times to the Eighteenth Century.** 6 points. [5]

Study of representative works in the context of social and cultural conditions. Autumn Term: The Courtly Age and the period of Humanism. Spring Term: Reformation, Baroque and Enlightenment. Prerequisite: Course 5, 6 or permission of the department. MRS. BRADLEY. M W F 2:10.

**61. Thomas Mann.** 3 points. [0]

Seminar required of seniors majoring in German. Open to other qualified students by permission of the department. An intensive study of Mann's major novels. Class discussions and individual reports. Introduction to methods of research. PROFESSOR SAKRAWA. Tu Th 10:35–11:50.

**62. Senior Essay.** 3 points. [0]

Senior essay, based on the work of Course 61, to be written upon invitation of the department. Regular consultations with the instructor at hours to be arranged. PROFESSOR SAKRAWA.

**55. Goethe.** 3 points. [9]

Critical and poetic works by Goethe and certain contemporaries. Lectures and discussions. A mid-term paper is required which, wherever possible, will attempt to relate the study of Goethe to the student's own major field of interest. No knowledge of German is required. PROFESSOR JARVIS. Tu Th 2:10–3:25.

**56. Modern German Literature.** 3 points. [9]

Selected novellas, novels and dramas by Buechner, Keller, Hauptmann, Rilke, Kafka, Mann, Brecht, Grass, and others. Lectures and discussions. Mid-term paper. No knowledge of German is required. PROFESSOR JARVIS. Tu Th 2:10–3:25.

## COLUMBIA COLLEGE COURSES

Some upper level courses can be found at Columbia during the years when they are not offered at Barnard.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

# GOVERNMENT

PROFESSORS: PHOEBE MORRISON (Chairman), <sup>1</sup>THOMAS P. PEARDON

ASSOCIATE PROFESSOR: PETER H. JUVILER

ASSISTANT PROFESSORS: DEMETRIOS CARALEY, -----

LECTURERS: ALICE H. HENKIN, LINDA MILLER

The department has defined a major in government as preparing a perceptive citizen for her role in the modern world, whether she intends to become a civil servant, a teacher or a lawyer, or to engage in any similar activity.

The foundation for a major in government is Course 1, 2 and Course 45, 46. In addition a student majoring in government must take one of the fundamental courses: International Relations (11, 12), Modern Political Movements (7, 8), the American constitutional system (25, 26), or political theory (31, 32). In her senior year, in order more adequately to explore techniques of investigation and to have an opportunity for more specialized work, she must take one section of the senior seminar. As part of the work of the senior seminar, she is required to write a senior essay, to be completed to the satisfaction of the department.

These requirements are so drawn as to permit a major in government, with the assistance of her adviser, to plan a program which will place special emphasis on particular interests, such as American government, international relations, or the political institutions of Western Europe.

A student may apply through appropriate channels for permission to take any course offered in the department, for additional credit, after she has secured the permission of the instructor in that course, except Course 1, 2. Such additional credit will be based either upon a special program of reading or the preparation of a special report.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

## FUNDAMENTAL COURSES

### **1, 2. Modern Constitutional Democracies. 6 points. [3]**

Governmental institutions, popular representation and the theory of modern democracy in the United Kingdom, the United States, Canada, and France, with illustrative material from Australia and India. Together these courses satisfy the requirement in contemporary society. Autumn Term: PROFESSOR PEARDON and MRS. HENKIN. Spring Term: PROFESSOR MORRISON and MRS. HENKIN. Lec. M W 11. Conference hours: Tu 10, 2:10; W 10, 1:10; Th 11; F. 11.

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<sup>1</sup> Absent on leave, Spring Term.



- [7. **Modern Political Movements.** 3 points. [2]  
Not given in 1964-65.]
9. **American Political Parties and Practices.** 3 points. [2]  
The role of the party system, interest groups, and public opinion in American politics. First-hand observation of political campaigns, legislative bodies, and civic organizations is required. PROFESSOR CARALEY. M W F 10.
10. **American State and Municipal Government.** 3 points. [2]  
Patterns of state and municipal government and politics. Particular attention is given to the political institutions of New York City and New York State. First-hand observation of political campaigns and legislative bodies is required. PROFESSOR CARALEY. M W F 10.
11. **International Relations.** 3 points. [1]  
An analysis of the setting and basic factors in contemporary world politics. Open to all except freshmen. MISS MILLER. M W F 9.
12. **International Organization.** 3 points. [1]  
An examination of some ways of dealing with international political problems: diplomacy, war, international law, international organization (pre-League, League of Nations, United Nations, North Atlantic Treaty Organization). MISS MILLER. M W F 9.
- 25, 26. **The Constitution of the United States.** 6 points. [6]  
Problems in the administration of justice and basic constitutional concepts are studied by the use of materials on constitutional interpretation. Designed for students of American government as well as for the pre-law candidate. Prerequisite: Course 1, 2 or History 9-10, or the equivalent. PROFESSOR MORRISON. Tu Th 9:10-10:25.
27. **Executive Policy-Making and Administration.** 3 points. [7]  
Problems of policy-making and administration, particularly at the presidential and cabinet level of the executive branch. Analysis of such concepts as authority, leadership, decision-making, and informal organization. PROFESSOR CARALEY. Tu Th 10:35-11:50.
28. **Legislative Politics.** 3 points. [7]  
Discussion of the interrelations of structure, politics and policy in the United States Congress. Intensive analysis of a recent session of Congress through first-hand examination of hearings, reports, debates and voting patterns. PROFESSOR CARALEY. Tu Th 10:35-11:50.
- [30. **The American Democratic System.** 3 points. PROFESSOR CARALEY.  
Courses 28 and 30 are to be given in alternate years.  
Not given in 1964-65.]

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### 31, 32. The History of Political Thought. 6 points. [3]

Major political writings from ancient to modern times. Political doctrines such as democracy, liberalism, socialism, fascism, and communism. Emphasis on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR CARALEY. M W F 11.

## SPECIALIZED COURSES

### 15. The Soviet Union. 3 points. [4]

Analysis is made of Soviet politics before and after Stalin; ideology; the structure of the Party and the government; instruments for mobilizing mass support; the impact of politics on the economy, arts, and the round of daily life; the limits of totalitarian control. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR JUVILER. M W F 1:10.

### 16. International Communism. 3 points. [4]

Communism's evolution as a world movement and political force. Emphasis is on recent efforts to reconcile internationalism with personal and national ambitions. Case studies include Titoism, impact of de-Stalinization, and the Sino-Soviet dispute. PROFESSOR JUVILER. M W F 1:10.

### 17. Introduction to International Law. 3 points. [5]

Such problems as recognition of states, legal status of dependent territories, control of war and new weapons, changing concepts of neutrality and other selected issues. Prerequisite: Course 11. PROFESSOR MORRISON. M 2:10-4. Third hour to be arranged.

### [18. The United States in Contemporary World Politics. 3 points.

Not given in 1964-65.]

### 20. The Soviet Union in World Affairs. 3 points. [5]

Soviet foreign policy is studied for patterns of continuity and change; motivations; possible causes of East-West tensions; the meaning, problem, and prospects of "peaceful coexistence." Prerequisite: Course 1, 2 or History 1-2. PROFESSOR JUVILER. M 2:10-5; W 2:10-3.

### 45, 46. Junior Readings. 6 points. [0]

Students will read selected classics. The reading lists for this course should be obtained by majors at the end of their sophomore year. Required of all majors in their junior year; open only to majors. Autumn Term: PROFESSOR JUVILER. Spring Term: MISS MILLER. Bi-weekly meetings of two hours: M 3:10-5; T 4:10-6; Th 2:10-4.

### 61-62. Senior Seminar. 6 points. [0]

Discussions and conferences on the topic of the senior essay.

Section I	PROFESSOR PEARDON.	Tu 4:10-6.
Section II	PROFESSOR MORRISON.	W 4:10-6.
Section III	PROFESSOR JUVILER.	Th 4:10-6.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Announcement of the Graduate Faculties. Attention is drawn to the following:

- G4241x. The Political Setting of Public Administration.** 3 points. PRO-  
FESSOR SAYRE. W 4:10–6.
- G4242y. The Managerial Aspects of Public Administration.** 3 points.  
PROFESSOR SAYRE. W 4:10–6.
- G4471x. Political Institutions of Japan.** 3 points. PROFESSOR MORLEY.  
W 4:35–6:15.
- G4472y. Political Institutions of China.** 3 points. PROFESSOR MORLEY.  
W 4:35–6:15.
- G6412x. British Government.** 3 points. PROFESSOR PEARDON.



# GREEK AND LATIN

ASSOCIATE PROFESSOR: HELEN H. BACON (Chairman)

ASSISTANT PROFESSOR: LYDIA H. LENAGHAN

INSTRUCTOR: ELIZABETH CONSTANTINIDES

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: MOSES HADAS, GILBERT HIGHET

ASSOCIATE PROFESSORS: COLEMAN H. BENEDICT, CHARLES H. KAHN, HOWARD N. PORTER

ASSISTANT PROFESSORS: WILLIAM M. CALDER, III, DANIEL GERSHENSON, THOMAS A. SUITS

INSTRUCTORS: JAMES A. COULTER, ANN LEBECK, WILLIAM NETHERCUT

PRECEPTORS: MICHAEL MOORE, JOHN VAIO

The general objectives towards which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Twenty-eight points in Greek above the elementary course, of which four must be in prose composition, six in the senior seminar.

A major in Latin: Twenty-eight points in Latin above the elementary course, of which four must be in prose composition, six in the senior seminar.

A major in Greek and Latin combined can be arranged for qualified students on consultation with the major adviser.

Other fields: Courses in ancient art, archaeology, history, philosophy, and other languages are strongly recommended.

The major examination at the end of the senior year consists of two three-hour examinations. One will test the student's understanding of style and language, and her ability to read aloud both prose and verse. The other will test general knowledge of the major field.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

Foreign language requirement for the degree: Students may fulfill the foreign language requirement in Greek or Latin either by completing Greek 11, 12 or Latin 11, 12 with a minimum grade of C-, or by passing a placement examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

## CLASSICAL CIVILIZATION

### 31. Classical Myth. 3 points.

[7]

A study, through translations of classical myths in such authors as Hesiod and

## GREEK AND LATIN

Ovid. May be counted towards the second part of the humanities requirement.  
MISS CONSTANTINIDES. Tu Th 10:35–11:50.

### **C3123x. Greek Drama and its Influences. 3 points.**

A study, through translations of the major Greek tragedies and comedies, and their influence on Roman and later European drama. Some attention is paid to the problems of the origin of Greek drama, the production of plays, and the dramatic criticism of Aristotle. PROFESSOR GERSHENSON. M W F 11.

### **C3126y. Epic in Greece and Rome. 3 points.**

A study, through translations, primarily of the *Iliad*, *Odyssey*, and *Aeneid*, and secondarily of Apollonius of Rhodes, Lucan, and others. Epics of other peoples will be read for comparative study. MR. VAIO. M W F 11.

### **[C3128y. Historiography in Greece and Rome. 3 points. MR. VAIO.**

Not given in 1964-65.]

## GREEK LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

### **1–2. Elementary Full-Year Course. 8 points. [5]**

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. PROFESSOR BACON. M W F 2:10 and a fourth hour to be arranged.

### **§11. Plato: One dialogue; Euripides: One play. 3 points. [3]**

Prerequisite: Course 1–2, or the equivalent. PROFESSOR LENAGHAN.  
M W F 11.

### **§12. Selections from Homer. 3 points. [3]**

Prerequisite: Course 11 or permission of the instructor. MISS CONSTANTINIDES.  
M W F 11.

### **§V3305x. Greek Tragedy. 3 points.**

A study of the form and content of Greek tragedy. At least three plays will be read in Greek. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3307x. PROFESSOR BACON.  
M W F 10.

### **§V3306y. Greek Historians. 3 points.**

Selections from Herodotus and Thucydides; studies in Greek historiography. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3308y. PROFESSOR KAHN. M W F 10.

### **[§V3307x. Greek Comedy. 3 points. PROFESSOR BENEDICT.**

Not given in 1964-65.]

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[§V3308y. **Greek Philosophy.** 3 points. DR. COULTER.

Not given in 1964-65.]

§V3309x. **Selections from Greek Literature.** 3 points.

Oratory; selections from the Attic orators including Demosthenes; studies in the history of Greek oratory. Prerequisite: Course 11, Course 12, or the equivalent.

PROFESSOR GERSHENSON. Tu Th 5:40–6:55.

§V3310y. **Selections from Greek Literature.** 3 points.

Hesiod and the Homeric *Hymns*; the two major poems of Hesiod and selected hymns will be read; studies in early didactic and religious poetry. Prerequisite: Course 11, Course 12, or the equivalent DR. COULTER. Tu Th 5:40–6:55.

V1109x–V1110y. **Prose Composition: First course.** 4 points.

A supplement to early reading courses which gives the student a firmer grasp of grammatical structure. MR. MOORE. W 5:10–6:50.

V3319x–V3320y. **Prose Composition: Second course.** 4 points.

A review of grammatical principles through the writing of sentences in Greek. DR. LEBECK. Th 1:10–2:50.

61–62. **Major Seminar.** 6 points. [0]

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Homer and Greek literature. Review and coordination of the work in the major. MEMBERS OF THE DEPARTMENT. Hours to be arranged.

## LATIN LANGUAGE AND LITERATURE

Courses marked thus § will count towards the college requirement in literature.

1–2. **Elementary Full-Year Course.** 6 points. [4]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2.

MISS CONSTANTINIDES. M W F 1:10.

3. **Cicero: Selections.** 3 points. [2]

Prerequisite: Course 1–2 or the equivalent. MISS CONSTANTINIDES. M W F 10.

4. **Vergil: Selections from Aeneid I–VI.** 3 points. [2]

Prerequisite: Course 3 or the equivalent. PROFESSOR LENAGHAN. M W F 10.

§11. **Livy: Selections; Vergil: Eclogues.** 3 points. [4]

Prerequisite: Course 4 or the equivalent. PROFESSOR LENAGHAN. M W F 1:10.

§12. **Catullus and Horace: Lyric Poems.** 3 points. [4]

Prerequisite: Course 11 or the equivalent. PROFESSOR BACON. M W F 1:10.



**§V3305x. Roman Historians. 3 points.**

Selections from Tacitus; studies in Latin historiography. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year in alternation with Course V3307x. PROFESSORS BENEDICT and SUITS. M W F 10.

**§V3306y. Roman Satire. 3 points.**

Selected satires of Horace and Juvenal; studies in the development of satire. Prerequisite: Course 11, Course 12, or the equivalent. Given every other year, in alternation with Course V3308y. PROFESSOR SUITS and MR. MOORE. M W F 10.

**[§V3307x. Roman Lyric and Elegiac Poetry. 3 points. PROFESSOR SUITS.**

Not given in 1964-65.]

**[§V3308y. Roman Philosophy. 3 points. PROFESSOR BENEDICT.**

Not given in 1964-65.]

**§V3309x. Selections from Latin Literature. 3 points.**

Roman drama; one comedy each of Plautus and Terence and a tragedy of Seneca will be read; studies in the origin and development of Roman drama. Prerequisite: Course 11, Course 12, or the equivalent. DR. NETHERCUT. M W 5:40–6:55.

**§V3310y. Selections from Latin Literature. 3 points.**

Letters; selections from the correspondence of Cicero and Pliny; studies in the letter as a literary genre. Prerequisite: Course 11, Course 12, or the equivalent. MISS CONSTANTINIDES. M W 5:40–6:55.

**V1109x–V1110y. Prose Composition: First course. 4 points.**

A supplement to early reading courses which gives the student a firmer grasp of grammatical structure. PROFESSOR LENAGHAN. W 5:10–6:50.

**V3319x–V3320y. Prose Composition: Second course. 4 points.**

A review of grammatical principles through the writing of sentences in Latin. DR. NETHERCUT. Th 1:10–2:50.

**61–62. Major Seminar. 6 points. [0]**

Required of all majors in the senior year. Autumn Term: Work on a special author to be determined by the interests of the student. A term paper is required. Spring Term: Vergil and Roman literature. Review and coordination of the work in the major. MEMBERS OF THE DEPARTMENT. Hours to be arranged.

GRADUATE COURSES

Graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors. Their description may be found in the Announcement of the Graduate Faculties.

# HISTORY

PROFESSORS: RENÉ ALBRECHT-CARRIÉ (Chairman), BASIL RAUCH, CHILTON WILLIAMSON

ASSOCIATE PROFESSORS: SIDNEY A. BURRELL, VIRGINIA D. HARRINGTON

ASSISTANT PROFESSOR: GEORGE WOODBRIDGE

ASSOCIATE: ANNETTE K. BAXTER

LECTURER: SVETLANA KLUGE

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: MORTON SMITH

ASSOCIATE PROFESSOR: NORMAN I. CANTOR

ASSISTANT PROFESSOR: HARVEY DYCK

As the record of the past, history touches on all aspects of human activity. The study of history is calculated to give an understanding of the functioning of man in society through an appreciation of his past achievements and a sense of continuity combined with diversity. The basic issues that confront human society have changed but little in historic times, but their setting is forever different.

A major in history: In order to acquire a broad understanding of historical development and some acquaintance with the technique of historical study, a student majoring in history is required to take the following:

(a) Three fundamental courses: European history (1–2), six points of American history and ancient or medieval history.

(b) Two courses in the category of specialized courses to be chosen with a view to concentration in the broad fields of either American or European history;

(c) Junior Readings, (71–72);

(d) One seminar for the purpose of gaining insight into the technique of more advanced work and as an introduction to specialized study and research. In connection with this seminar a student majoring in history is required to write a senior essay. Students are strongly advised to elect a four-course program for their senior year.

NOTE: These broad requirements retain sufficient flexibility to be adjustable to the needs of students with a special interest in a particular field or area, e.g., classical civilization, cultural history, the Near East, and the program in Oriental Studies.

## BASIC COURSES

**1–2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War.** 6 points. [16]

Autumn Term: Foundations of modern Europe; from the fifteenth century to the eighteenth; the British, American, and French Revolutions; Napoleon; the

Congress of Vienna. Spring Term: Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; the world wars and the twentieth century transition. PROFESSORS BURRELL and WOODBRIDGE.

Section I M W F 9. Section II Tu Th 2:10–3:25.

## **C1105x–C1106y. Ancient History: A Survey of the Ancient Mediterranean World.** 6 points.

Autumn Term: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the accession of Alexander the Great. Spring Term: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the “known world,” the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. PROFESSOR SMITH. M W F 9.

## **7–8. Medieval Thought, Culture, and Science.** 6 points. [9]

Introduction to medieval civilization from the third to the fifteenth century. The course will be conducted in discussion groups. Independent research and extensive reading on medieval literature, art, and music, as well as on political, economic, and ecclesiastical history. PROFESSOR CANTOR. Tu Th 2:10–3:25.

## **9–10. History of the United States from the Colonial Period to the Present Day.** 6 points [3]

This course, while presented within the political and economic framework, will place particular emphasis on social, cultural, and intellectual development. Designed especially for freshmen and for students who intend to take only one year of American history. PROFESSOR HARRINGTON. M W F 11.

## **SPECIALIZED COURSES**

### **11, 12. England from the Norman Conquest to the Twentieth Century.** [7] 6 points.

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginning of the welfare state. PROFESSOR BURRELL. Tu Th 10:35–11:50.

### **[13, 14. France from the Sixteenth to the Twentieth Century.** 6 points.

PROFESSOR WOODBRIDGE.

Not given in 1964-65.]

### **23. Nineteenth Century Europe, 1815-1870.** 3 points [2]

The legacy of the French Revolution and the Napoleonic episode: the struggle for constitutional government and for national unity and independence. Prerequisite: Course 1–2 or its equivalent. PROFESSOR WOODBRIDGE. M W F 10.

### **24. Nineteenth Century Europe, 1870-1918.** 3 points. [2]

The period of German leadership. The individual states of Europe and their relations. Imperialism and power alignments. The First World War. Prerequisite: Course 1–2 or its equivalent. PROFESSOR WOODBRIDGE. M W F 10.



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**25y. Twentieth Century Europe.** 3 points. [6]

The first World War and the ensuing settlements. The apparent liquidation of the war; the League; new political systems. The collapse of the nineteen thirties. The second World War and its legacy. Prerequisite: Course 1–2 or its equivalent. PROFESSOR CARRIÉ. Tu Th 9:10–10:25.

**29. The Modern Mediterranean World.** 3 points. [6]

The evolution of the Mediterranean world during the nineteenth and twentieth centuries. The Eastern Question and the Powers. The impact of nationalism and imperialism. The end of the Ottoman Empire; Italian and Spanish Fascism. The liquidation of colonialism and the emergence of the Arab world. Prerequisite: Course 1–2 or its equivalent. PROFESSOR CARRIÉ. Tu Th 9:10–10:25.

**33, 34. Studies in American Colonial History.** 6 points. [5]

Economic, religious, social and intellectual aspects of colonial culture. The Revolutionary Movement: ripeness of the colonies for rebellion; organization of resistance; the clash of ideas and arms; internal significance of the Revolution and its subsequent influence. Prerequisite: Course 9–10 or its equivalent. PROFESSOR HARRINGTON. M W F 2.

**G6327x–G6328y. History of the British Empire-Commonwealth.** 6 points.

An historical survey from Tudor times to the second World War, with special attention to those phases of the subject less likely to be familiar to American students. Prerequisite: Course 1–2 or its equivalent. PROFESSOR WILLIAMSON. M W F 11.

**37, 38. History of Russia.** 6 points. [1]

A history of the Russian people, state and culture from their origins to the present. Autumn Term: Russia to 1861. Spring Term: Imperial, Revolutionary and Communist Russia. Prerequisite: Course 1–2 or its equivalent. PROFESSOR DYCK. M W F 9.

**45, 46. Studies in Middle American History.** 6 points. [5]

Aspects of the history of the United States from the establishment of the Constitution to the collapse of Reconstruction. Prerequisite: Course 9–10 or its equivalent. PROFESSOR WILLIAMSON. M W F 2.

**53–54. History of United States Foreign Relations.** 6 points. [9]

American diplomacy from the Secret Committee of Correspondence to recent times, with attention to domestic and foreign influences on the policies and actions of American leaders. Prerequisite: Course 9–10 or its equivalent. PROFESSOR RAUCH. Tu Th 2:10–3:25.

**55–56. Studies in Modern American History.** 6 points. [7]

Economic, social, political, and cultural topics from 1876 to today will be studied by means of lectures, individual reading programs, written reports, and group

discussions. Prerequisite: Course 9–10 or its equivalent. PROFESSOR RAUCH.  
Tu Th 10:35–11:50.

[57, 58. **History of Religion in America.** 6 points PROFESSOR HARRINGTON.  
Not given in 1964-65.]

[59, 60. **The Development of Historical Thinking.** 6 points. PROFESSOR  
BURRELL.  
Not given in 1964-65.]

## COURSES FOR MAJORS ONLY

**71–72. Junior Readings.** 6 points. [0]

Students will read classics in history, brief written reports will be prepared for discussion. The aim of the course is to prepare the student to read and discuss historical works critically. Required of all majors in the junior year; open only to majors. PROFESSOR HARRINGTON, DR. BAXTER and MISS KLUGE. Bi-weekly meetings. Tu 4:10–6.

Admission to the seminars is by permission of the department. History majors should file application with the chairman in the spring of their junior year, indicating the order of their choice of seminars.

History majors are also eligible to fulfill seminar requirements by enrolling in the senior seminar in British Civilization on written permission of the chairman of the Committee on British Civilization.

**81–82. Senior Seminars in European Civilization.** 6 points. [0]

Research in the literature of European issues, including nationalism, socialism, the balance of power, etc., and the presentation of the results in seminar discussion and the form of the senior essay. PROFESSORS WILLIAMSON, BURRELL and WOODBRIDGE. Sections I and II W 4:10–6. Section III Th 4:10–6.

**83–84. Seminar in American Studies.** 6 points. [0]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussions. PROFESSOR RAUCH. W 4:10–6.

[87–88. **Seminar in Historians and Historiography.** 6 points. PROFESSOR  
HARRINGTON.

Not given in 1964-65.]

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the courses will be found in the Announcement of the Graduate Faculties.

# HYGIENE

DR. MARJORY J. NELSON, College Physician

DR. RICHARD G. ABELL, Lecturer in Mental Hygiene

1. **Hygiene.** 2 points. [12]

A study of the principles of physical and mental health.

Required of all freshmen. Required of all transfer students who do not pass the exemption test at the time of registration. DR. NELSON and DR. ABELL.

Tu Th 4:10–5.



# ITALIAN

ASSOCIATE PROFESSOR: MARISTELLA DE PANIZZA LORCH  
(Chairman for Barnard College)

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: PAUL O. KRISTELLER, HOWARD R. MARRARO, JOSEPH A. MAZZEO,  
MARIO A. PEI, PETER M. RICCIO

ASSOCIATE PROFESSORS: JOHN NELSON, OLGA M. RAGUSA, LUCIANO REBAY  
(Chairman for Columbia College).

ASSOCIATE: MARIO CORONA

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write, and speak it, (b) a fundamental acquaintance with Italian literature, (c) ability to understand and interpret literary texts in Italian.

Courses: 28 points, exclusive of language courses, to be planned as early as possible in consultation with the department; Course V3991x–V3992y.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, with a minimum grade of C–, or Course V3333x with a minimum grade of B+.

Casa Italiana: The Casa Italiana, located on Amsterdam Avenue at 117th Street, is open to all students interested in Italian culture, and literature. A program of lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs.

## LANGUAGE COURSES

**V1101x–V1102y. Elementary Full-year Course. 8 points.**

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. May not be taken simultaneously with Spanish 1–2. No credit is given for Course V1101x until Course V1102y has been completed. Work in the language laboratory for one hour weekly is a required part of the course. PROFESSOR LORCH, DR. CORONA, and staff. SECTION I Tu Th 11–12:15; W F 12:10. SECTION II M W F 12:10; Tu Th 3:10.

**V1201x–V1202y. Intermediate Course. 6 points.**

A review of the essentials of grammar, intensive and extensive reading, translation, composition, and practice in conversation. PROFESSOR NELSON, DR. CORONA, and staff. SECTION I M W F 8. SECTION II M W F 9.

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## LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

All courses are conducted in Italian except Courses V1107x–V1108y, V1121x, V1122y, V1131x–V1132y.

### **V1301x–V1302y. Introduction to the Reading of Italian. 6 points.**

A course intended for students who wish to acquire the reading skill to interpret literary texts in Italian. Open only to students who have already completed their requirement in other languages. To be taken only with the specific approval of the department. ————. M Th 4:10–5:25, W 4:10–5.

Offered at Columbia College as *Intensive Elementary and Intermediate Course*.

### **§V3333x–V3334y. Introduction to Italian Literature. 6 or 8 points.**

Reading and interpretation of major Italian authors. Training in composition. Prerequisite: permission of the department. PROFESSOR REBAY and staff. M W 1:10–2:25.

### **[§V3535x–V3536y. Italian Literature of the Thirteenth and Fourteenth Centuries. 6 or 8 points.**

Not given in 1964-65.]

### **[§V3537x. Italian Humanism and the Renaissance. 3 or 4 points.**

Not given in 1964-65.]

### **§V3639x–V3640y. Italian Literature from 1500 to 1800. 6 or 8 points.**

Reading and analysis of literary texts of the period. PROFESSOR LORCH and staff. Tu Th 9–10:15.

### **[§V3642y. The Italian Theatre. 3 or 4 points. PROFESSOR LORCH.**

Not given in 1964-65.]

### **§3733x–V3734y. Modern and Contemporary Italian Literature. 6 or 8 points.**

Reading and analysis of major literary texts from 1800 to the present. PROFESSOR REBAY and staff. M W 3:10–4:25.

### **V3991x–V3992y. Seminar in Italian Literature. 6 points.**

Intensive analysis of literary masterworks leading to the preparation of a critical essay. Required of majors and concentrators. Open to other qualified students by permission of the department. MEMBERS OF THE DEPARTMENT. Hours to be arranged.

Courses in English for students with no knowledge of Italian. Open to students of Italian with the permission of the instructor.

### **V1107x–V1108y. Special Reading Course. 4 points.**

Discussions of readings in Italian art, history, science, music, and letters. Individual reading assignments are generally given in that field of Italian culture most intimately associated with the student's major interest. Permission of the instructor required. PROFESSOR RICCIO. W 2:10–3:40.

**[V1121x. The Italian Renaissance and its Classical Background.** 2 or 3 points.  
PROFESSOR LORCH.  
Not given in 1964-65.]

**[V1122y. Italian Literature from 1600 to 1900.** 2 or 3 points. PROFESSOR LORCH.  
Not given in 1964-65.]

**V1131x-V1132y. Dante, Petrarch, Boccaccio.** 4 or 6 points.  
The Divine Comedy, the Canzoniere, the Decameron. PROFESSOR LORCH.  
Tu 4:10-5:40.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the chairman of the department. A description of these courses will be found in the Announcement of the Graduate Faculties. The following are recommended:

**G4001x-G4002y. A Survey of the History of Italian Literature.** 6 points.  
PROFESSOR MARRARO. Tu 7:10-9 p.m.

**G4003x. History of the Italian Language.** 3 points. PROFESSOR PEI.  
Th 4:40-6:30.

**G4005x-G4006y. Italian Lyric Poetry (in Italian).** 6 points. PROFESSOR REBAY.  
Tu 5:10-7.

**G4072y. Manzoni (in Italian).** 3 points. PROFESSOR RAGUSA. Th 6:40-8:30 p.m.

**G4075x-G4076y. Dante.** 6 points. PROFESSOR NELSON. W 5:10-7.

**Italian-Philosophy G4067x-G4068y. Philosophical Literature of the Renaissance.** 6 points. PROFESSOR KRISTELLER. Tu Th 1:10.

**Italian-Comparative Literature G4123x-G4124y. Dante and Medieval Culture.** 6 points. PROFESSOR MAZZEO. M W 2:10.

**Italian-Comparative Literature G4785x-G4786y. Studies in the Italian Theatre.** 6 points. PROFESSOR LORCH. M 6:40-8:30 p.m.

**G4097x. Italian Literary Criticism of the Twentieth Century.** 3 points.  
PROFESSOR RICCIO. Hours to be arranged.

The following courses in the School of General Studies are open on the recommendation of the department:

**F1221x-F1222y. Intermediate Conversation (in Italian).** 4 points. -----.

**F3335x-F3336y. Advanced Composition and Translation.** 6 points. DR. PIETROSI.

**F3471x. Prose of the Italian Renaissance.** 3 points. DR. FERRARI.

**F3472y. Poetry of the Italian Renaissance.** 3 points. DR. PIETROSI.



# MATHEMATICS

PROFESSORS: EDGAR R. LORCH, WALTER C. STRODT

ASSOCIATE PROFESSOR: HYMAN BASS (Chairman)

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSORS: HERBERT ROBBINS, PAUL SMITH

ASSOCIATE PROFESSOR: LAJAS TAKÁCS

ASSISTANT PROFESSORS: HAROLD EDWARDS, MICHAEL GINSBURG, HAROLD ROSENBERG, RICHARD C. SACKSTEDER, ARTHUR J. SCHWARTZ

RITT INSTRUCTORS: VICTOR W. GUILLEMIN, ROBERT E. MACRAE

INSTRUCTOR: DAVID I. KNEE

**A major in mathematics:** A student majoring in mathematics will be required to take a minimum of 28 points, including the calculus sequence or the equivalent, and, in addition, courses selected with the approval of the department. The basic courses in algebra and analysis, Courses W3040x–W3041y and W3161x–W3162y, are strongly recommended as an introduction to modern mathematical concepts and as a foundation for advanced work in mathematics. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Graduate Faculties.

**Other fields:** Usually it is advantageous to supplement the mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. Those interested in the field of computing machines may consult the bulletin of the Watson Scientific Computing Laboratory for courses in this area of applied mathematics. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

**Advanced Placement:** Students entering with advanced placement should consult the department.

The major examination will be in two parts: (1) The Graduate Record Examination; (2) an oral examination administered by the department.

## 7, 8. Mathematical Analysis. 6 points. [2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. ----- M W F 10.

## 15x (or 15y). Calculus 1. 3 points. [1]

Differential calculus of functions of one variable. Analytic geometry will be introduced as needed. Prerequisite: Trigonometry. PROFESSOR BASS and ----- M W F 9. Fourth hour to be arranged.

- 16x (or 16y). Calculus II.** 3 points. [1]  
Integral calculus of functions of one variable. Infinite sequences and series. Prerequisite: Course 15 or the equivalent. Autumn Term: -----, Spring Term: PROFESSOR BASS. M W F 9. Fourth hour to be arranged.
- 25. Calculus III.** 3 points. [2]  
Vectors, matrices, determinants, analytic geometry of space, functions of several variables, partial derivatives. Prerequisite: Course 16 or the equivalent. PROFESSOR STRODT. M W F 10.
- 26. Calculus IV.** 3 points. [3]  
Taylor's theorem in several variables, maxima and minima, multiple integration. Prerequisite: Course 25. PROFESSOR STRODT. M W F 11.
- 56. Advanced Calculus.** 3 points. [10]  
An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line and surface integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials and Bessel functions. Prerequisite: Course 26 or the equivalent. -----, M W F 3:10.
- 61. Introduction to Modern Mathematics.** 3 points. [10]  
The study of various mathematical theories developed essentially during the present century. These include logic, axiomatics, set theory, abstract algebra, topology, relativity. Philosophical problems of the structure of mathematics will be illuminated by a discussion of non-euclidean geometry and the foundations crisis. Prerequisite: Course 26 or the equivalent. -----, M W F 3:10.
- W3005x-W3006y. Advanced Calculus for Science Majors.** 6 points.  
Taylor's theorem and powers series in several variables; maxima and minima: directional derivatives and gradients; line and surface integrals; Green's and Stokes' theorems; change of variables in multiple integrals; problems in mathematical physics. Elements of the theory of functions of a complex variable as an instrument for the physical sciences and engineering. Prerequisite: Course 26 or the equivalent. PROFESSOR EDWARDS. Tu Th 1:10-2:25.
- W3027x(or W3027y). Differential Equations.** 3 points.  
The solution of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Course 26 or equivalent. Autumn Term: PROFESSOR SACKSTEDER. Tu Th 5:40-6:55. Spring Term: DR. KNEE. M W F 10.
- W3028y. Partial Differential Equations.** 3 points.  
The solution of partial differential equations, with applications to problems in geometry and mechanics. Prerequisite: Course W3027x or equivalent. PROFESSOR SACKSTEDER. Tu Th 5:40-6:55.
- W3040x-W3041y. Introduction to Modern Algebra.** 6 points.  
Primarily for majors. Introduction to groups, rings, fields, with examples. Polynomials, algebraic number fields, the Galois theory and applications. Prerequisite: Course 26 or the equivalent. PROFESSOR SCHWARTZ. M W 2:40-3:55.



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### **W3161x–W3162y. Introduction to Modern Analysis.** 6 points.

Selected topics from among the following: Metric spaces and their completion, topological spaces and the theory of continuous functions and convergence, inverse mapping theorems and existence theorems for differential equations, differential forms and their integrals, Fourier transforms. Prerequisite: Course 26 or the equivalent. PROFESSOR GINSBURG. Tu Th 1:10–2:25.

### **W3202x (or W3202y). Introduction to Algebra.** 3 points.

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Course 16 or the equivalent. Autumn Term: —————. Tu Th 5:40–6:55. Spring Term: —————. Tu Th 10, W 12.

### **W3375x. Geometric Topology.** 3 points.

Elementary combinatorial properties of polyhedra. The fundamental group; elementary homology theory and related invariants. Topology of surfaces and their classification. Prerequisite: Course 26 or the equivalent. PROFESSOR SMITH. Tu Th 2:40–3:55.

### **W3386y. Differential Geometry.** 3 points.

Local and global differential geometry of submanifolds of Euclidean 3-space. Frenet formulas for curves. Various types of curvatures for curves and surfaces and their relations. The Gauss-Bonnet theorem. Prerequisite: Course W3375. DR. GUILLEMIN. Tu Th 2:40–3:55.

### **W3940x–W3941y. Seminar in Algebra.** 6 points.

Discussion and readings of selected topics in algebra. Prerequisite: Course W3401. DR. MACRAE. M W 2:40–3:55.

### **W3961x–W3962y. Seminar in Analysis.** 6 points.

Discussion and readings of selected topics in analysis. Prerequisite: Course W3162. PROFESSOR ROSENBERG. M W 1:10–2:25.

### **G4010x. Fundamental Concepts of Mathematics.** 3 points.

The groundwork on which almost all modern mathematics rests. Sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, and real and complex numbers. Prerequisite: Course 26. PROFESSOR KOLCHIN. Tu Th 2:40–3:55.

### **Mathematical Statistics G4105x (or G4105y). Probability.** 4½ points.

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chisquare, t, and F distributions. Prerequisite: Course 26. PROFESSORS ROBBINS and TAKÁCS. Autumn Term: M W 5:40–6:55. Spring Term: Tu Th 11–12:15.

### **Mathematical Statistics G4106y. Elementary Theory and Applications of Stochastic Processes.** 3 points.

Special topics in probability theory which are important in applications: Markov chains, renewal theory, random walks, recurrent events, queuing theory, elementary stochastic processes. Prerequisite: Course G4105. PROFESSOR TAKÁCS. Tu 5:40–7:30.



# MUSIC

PROFESSOR: <sup>1</sup>OTTO LUENING

ASSOCIATE PROFESSOR: HUBERT DORIS (Chairman for Barnard)

INSTRUCTOR: PATRICIA CARPENTER

ASSISTANT: ORA FRISHBERG

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: WILLIAM J. MITCHELL, DOUGLAS MOORE, *Emeritus*, WILLARD RHODES

ADJUNCT PROFESSOR: HENRY COWELL

ASSOCIATE PROFESSORS: JACK BEESON, HOWARD SHANET, VLADIMIR USSACHEVSKY

ASSISTANT PROFESSORS: NICHOLAS ENGLAND, PETER FLANDERS, JOEL NEWMAN, ERNEST SANDERS

INSTRUCTOR: GORDON CRAIN

LECTURER: WALTER SORELL

TEACHING STAFF IN APPLIED MUSIC:

SHIRLEE EMMONS. Voice

ALTA HILL. Piano

ROBERT GOLDSAND. Piano

RUBEN VARGA. Violin

PETER FLANDERS. University Chorus

ELIAS DANN. University Band

HOWARD SHANET. University Orchestra

M. SEARLE WRIGHT. Organ: Chapel Choir

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 1–2 and V1331y in the freshman year followed by Course V1332x in the sophomore year, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and Course 1–2) in literature, history, and in theory. Ordinarily Courses V3123x–V3124y, V1331x–V1332y, V3532x–V3533y, V3333y, V3334x, V3335x, and V3373x–V3374y are required. (Courses V3336y and V3239x–V3240y are required of students intending to specialize in composition.) Course V3125x is highly recommended as an elective. Applied music courses (a maximum of 12 points) may be counted towards the degree but are not required.

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<sup>1</sup> Absent on leave, Spring Term.

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Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology, or ethnomusicology, must know at least two foreign languages, including German and French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Announcement of the Graduate Faculties for those courses open to seniors and others with advanced training.

At the end of the junior year students majoring in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano and that they have participated for two years in the chorus, orchestra, choir, concert band, or other musical ensembles.

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

Practice rooms: The department provides practice rooms at a nominal charge for use of students of applied music. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall: during registration and the first week of classes by music majors, and by all others during the week following.

Library: Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students registered in music courses other than Course 1–2.

## LITERATURE AND HISTORY

### **1–2. An Introduction to Music. 6 points.**

A study of the elements of musical structure designed to form intelligent listening habits. The spring term is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course satisfies the non-literature requirement in the humanities.

PROFESSOR DORIS and MISS CARPENTER.

Section I M W F 10. [2]. Section II M W F 11. [3]. One hour per week of supervised listening.

### **V1003y. Literature of the Solo Song. 3 points.**

A survey of accompanied vocal monody from the eighteenth century to the present. Prerequisite: Course 1–2 or the equivalent. PROFESSOR DORIS. M W F 1:10, listening hour F 2:10.

### **[V1004y. Literature of the Pianoforte. 3 points. PROFESSOR DORIS.**

Not given in 1964-65.]

### **V1005y. The Opera. 3 points.**

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1–2 or the equivalent. PROFESSOR RHODES. M W 1:10–3. One hour is a listening hour.

**V1006x. The Symphony.** 3 points.

A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course V1008y will satisfy the non-literature requirement in the humanities. PROFESSOR SANDERS. M W 1:10-3. One hour is a listening hour.

**V1007x. Music of the World's Peoples.** 3 points.

An introduction to the so-called primitive folk and traditional music of the world's peoples. One hour of class time each week will consist of musical illustrations. Prerequisite: Course 1-2 or the equivalent. PROFESSOR COWELL. Tu Th 2:10-4.

**V1008y. Contemporary Music.** 3 points.

A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course V1006y will satisfy the non-literature requirement in the humanities. PROFESSOR COWELL. Tu Th 2:10-4.

**V1009y. The Heritage of Music.** 2 points.

An inquiry into the various forms of musical expression, designed for the non-specializing student. Selected compositions from the Renaissance to the present day will be studied through an interpretation of their historical, functional and cultural significance. Prerequisite: Course 1-2 or the equivalent. PROFESSOR MOORE. Tu Th 11, listening hour Th 12:10.

**W1109x-W1110y. History of the Dance.** 2 or 3 points.

A survey of the development, history, aesthetics and philosophy of the dance, with particular reference to drama, opera, ballet and modern dance. Lectures and demonstrations; interviews with specialists in the field and practice in selected dance movements. MRS. ROOSEVELT and MR. SORELL. Tu 7:10-9:50 p.m.

**[V1012y. Haydn and Mozart.** 3 points. PROFESSOR LUENING.

Not given in 1964-65.]

**V1013y. Choral Music.** 3 points.

A study of choral literature from the Middle Ages to the present. The Friday meeting will normally consist of a reading rehearsal of works of the type discussed in the week's lecture. Prerequisite: Course 1-2 or the equivalent. PROFESSOR FLANDERS. M W 3:10, F 3:10-5.

**V1014x. Chamber Music.** 3 points. PROFESSOR LUENING.

A survey of the significant literature of chamber music. M 3:10-5, W 3:10, listening hour F 3:10. PROFESSOR LUENING.

**V3123x-V3124y. History of Music.** 6 points.

A survey of the history of music from the beginning of the Christian era to the nineteenth century. One hour of class time each week will consist of musical illustration. Prerequisite: Course V1331x-V1332y or the equivalent. PROFESSOR NEWMAN. Tu Th 9-10:50.



## BARNARD COLLEGE

### **V3125x. Nineteenth Century Music. 3 points.**

A history of music in the Romantic Era. This course is designed as a continuation of Course V3123x–V3124y, but may be taken separately and at any time after completion of Course V1332y. PROFESSOR DORIS. M W F 1:10, listening hour F 2:10.

### **V3179x–V3180y. Seminar. Historical and Analytical Studies in the Literature of Music. 6 points.**

Required seminar for senior majors to supplement and coordinate previous studies.

Section I. PROFESSOR DORIS and MISS CARPENTER. F 3:10–5.

Section II. PROFESSOR BEESON. W 3:10–5.

### **[G4008x. Twentieth Century Tendencies in Music. 3 points. PROFESSOR LUENING.**

Not given in 1964-65.]

## THEORY

### **V1331x–V1332y. Harmony. 6 points.**

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano. Written permission of the instructor required. PROFESSOR ENGLAND and MISS CARPENTER. M W F 1:10.

### **V1331y–V1332x. Harmony. 6 points.**

The subject matter of Course V1331x–V1332y, starting in the spring term. MISS CARPENTER. M W F 11.

### **V3532x. Harmony at the Keyboard. 2 points.**

A laboratory course featuring the subject matter of Course V1332y as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, harmonization of melodies, and thorough-bass realization. Prerequisite: Course V1331x. Preceding or parallel: Course V1332y. MISS FRISHBERG. W 3:10–5.

### **V3333x. Advanced Harmony. 3 points.**

An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course V1331x–V1332y or the equivalent. Parallel, advised but not required: Course V3335x, V3336y. PROFESSOR MITCHELL. M W F 10.

### **V3533y. Harmony at the Keyboard. 2 points.**

A laboratory course featuring the subject matter of Course V3333y as applied to the keyboard. Prerequisite: Course V1331x–V1332y. Preceding or parallel: Course V3333y. MISS FRISHBERG. W 3:10–5.

### **V3334y. Analysis. 3 points.**

Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of

musical history. Prerequisite: Course V3333y. Recommended, but not required: Course V3335x, V3336y. PROFESSOR MITCHELL. M W F 10.

**V3335x—V3336y. Counterpoint. 6 points.**

A study of the five species in two and three parts, strict style. During the spring term students analyze and compose polyphonic pieces in various styles. Prerequisite: Course V1331x—V1332y or the equivalent. MR. CRAIN and ----- . M W F 12:10.

**V3239x—V3240y. Composition. 4 points.**

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course V3333y or written permission of the instructor. This course may be repeated for credit. PROFESSORS LUENING and USSACHEVSKY. Tu 2:10—4.

**V3373x—V3374y. Orchestration, Conducting, and Score Reading. 6 points.**

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. Prerequisite: Course V1331x—V1332y or the equivalent and written permission of the instructor. PROFESSOR SHANET. M W F 2:10.

## APPLIED MUSIC

NOTE: Each course in applied music must be taken parallel to, or subsequent to, a theoretical or historical course in music in order to count towards the degree. A maximum of 12 points may be so counted. One point of credit each term is available to members of the University Orchestra and Chorus. No student may register for a course in vocal, organ, violin or piano instruction without consultation with the department as early in the registration period as possible. Special financial benefits are available to majors upon application to the chairman of the department. 601 Journalism. Hours to be arranged with the instructor.

**81, 82. Vocal Instruction. 2 points. (See above note.)**

Private lessons in voice production and in interpretation. Coaching and repertoire. Special fee, \$185 each term; no refunds. MISS EMMONS.

**83, 84. Organ Instruction. 2 points. (See above note.)**

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers. Consult the department, 601 Journalism, about registration and fees. MR. WRIGHT.

**85, 86. Violin Instruction. 2 points. (See above note.)**

Private lessons in the technique of the instrument and in interpretation, for both beginning and advanced students. Special fee, \$185 each term; no refunds. MR. VARGA.

**91, 92. Piano Instruction. 2 points. (See above note.)**

Private lessons in technique, sightreading and repertoire. Special fee, \$185 each term; no refunds. MISS HILL.

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### 93, 94. Piano Instruction for Advanced Students. 2 points. (See above note.)

Private lessons in the technique of the instrument and in interpretation. Coaching and repertoire. Special fee, \$225 each term; no refunds. MR. GOLDSAND.

## PERFORMANCE ACTIVITIES

A detailed description of the following activities is given in the *Barnard Student Handbook*.

Audition and rehearsal schedules for all activities will be posted outside 601 Journalism, the Columbia departmental office, at least a week before registration.

### Columbia University Orchestra: PROFESSOR SHANET.

Auditions: schedule to be posted on the departmental bulletin board during registration week.

Rehearsals: M 5:30–7:30 on the stage of McMillin Theatre, and M Tu W Th F 5:30–7:30 in the two weeks preceding the public concert.

### Columbia University Chorus: PROFESSOR FLANDERS.

Auditions: audition sign-up sheets will be posted outside the Music Department office a week before registration.

Rehearsals: M W 6:30–8:30 p.m.; 304 Barnard Hall.

### Chapel Choir: MR. WRIGHT.

Auditions: Friday, September 18, from 2 to 5; Monday–Wednesday, September 22–24, from 10 to 12 and 2 to 5, in the Chapel Crypt.

Rehearsals: M W F 5–6:15.

### University Bands: MR. DANN.

Auditions: for the Concert Band, during registration week and by appointment.

Rehearsals: Tu Th 4–6.

### Collegium Musicum.

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

### Music for an Hour.

This series of informal chamber concerts, held the last Tuesday in every month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult Professor Doris.



# ORIENTAL STUDIES

ASSISTANT PROFESSORS: JOHN MESKILL (Departmental Representative), BURTON WATSON.

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION JOINTLY TO BARNARD and COLUMBIA STUDENTS:

PROFESSORS: HANS H. A. BIELENSTEIN, WM. THEODORE DE BARY

ASSOCIATE PROFESSORS: CHIH-TSING HSIA, IVAN MORRIS

ASSISTANT PROFESSORS: AINSLIE T. EMBREE, HERSCHEL F. WEBB

INSTRUCTOR IN RELIGION: ROBERT F. OLSON

PRECEPTOR: JANET WAKIN

Oriental Studies aims to provide, by means of the first three courses listed below, an introduction to major aspects of four living Asian civilizations. These courses are designed for any student, whatever her major, who wishes to include knowledge of Asia in her education.

Majors in the program will be prepared for further study in graduate school or some other related professional training. They will concentrate on one of the following regions or countries: the Near and Middle East, India, China, or Japan.

*Program: As corollary requirements and prerequisites:*

Approximately three courses in a regular academic department, such as history or literature.

Either Oriental Civilizations V3355x–V3356y or Oriental Studies W3001x–W3002y, usually to be completed by the end of the sophomore year.

*As major requirements:*

16 points of an Oriental language (in addition to other college language requirements).

18 points in Oriental courses, divided between the social sciences and the humanities.

A senior seminar of four points, or its equivalent.

A major examination or, in some circumstances, a shorter examination and a paper.

All individual courses will be chosen in consultation with the major adviser.

Majors in the program come under the administration of Area Studies. For admissions procedure and other details, see page 49.

**Oriental Civilizations V3355x–V3356y.      8 points.**

The more important factors in the life of peoples of India, China, and Japan, together with an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the modern West

## BARNARD COLLEGE

while still grappling with age-old problems. Fourth hour: Consultation and audio-visual illustrations. Prerequisite: History 1–2 or permission of instructor. PROFESSORS BIELENSTEIN, DE BARY, EMBREE, MESKILL, and WEBB. Section I M W F 9. Section II M W F 11. Section III M W F 2:10. Fourth hour W 12:10 or W 3:10.

### **Oriental Humanities V3399x–V3400y. 8 points.**

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several oriental traditions. The autumn term will deal with works from the Near East and India; the spring term with readings from China and Japan. Open to juniors and seniors who have completed six points of literature and three points of philosophy or religion, or written permission of instructor. PROFESSORS DE BARY, EMBREE, MESKILL, MORRIS, and MR. OLSON.

Section I	Tu 3:10–5.	(Columbia students)
Section II	W 2:10–4.	(Columbia students)
Section III	Th 7:40–9:30 p.m.	(Columbia students)
Section IV	Th 3:10–5.	(Barnard and Columbia students)
Section V	M 3:10–5.	(Barnard students)
Section VI	Tu 7:10–9 p.m.	(General Studies students)

### **Oriental Studies W3001x–W3002y. Introduction to Islamic Civilization. 6 points.**

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. MRS. WAKIN. M W 4:10–5:25.

### **History G6525x–G6526y. History of Modern India. 6 points.**

The development of modern India from the decline of the Mughal Empire to the present time. Special attention will be given to the impact of the West, the rise of nationalism, the social, political and economic problems of independent India and foreign relations. Permission of instructor required. PROFESSOR EMBREE. M W 10.

### **Chinese History G6815x–G6816y. Introduction to the Civilization of China. 6 points.**

An examination of Chinese history from ancient times to the beginning of the seventeenth century, with special attention given to characteristic political, economic and social developments. Permission of Professor Meskill required. PROFESSORS BIELENSTEIN and MESKILL. M W 11.

### **Oriental Studies V3500x–V3501y. Seminar in Asian Literature. 8 points.**

Autumn Term: Selected themes of Chinese, Japanese, Indian, and Near Eastern poetry. Spring Term: Selected topics in the contemporary novel of China, Japan, India, and the Near East. Open to juniors and seniors with the permission of the instructors or Professor Meskill. PROFESSORS WATSON, HSIA, ULANOV, and staff. Hours to be arranged.

The following courses in Columbia University are open to Barnard students who have the consent of their advisers and PROFESSORS ULANOV and MESKILL, officers in charge of Area Studies. Descriptions may be found in the Announcements of Columbia College, the Graduate Faculties and the School of General Studies.

- Arabic F1101x—F1102y. Elementary Arabic.** 6 points.  
PROFESSOR MADINA. M 6:40—7:55 p.m. Th 6:10—7:25 p.m.
- Chinese C1101x—C1102y. Elementary Chinese.** 8 points.  
MR. HAN. M Tu W Th F 9.
- Chinese C1201x—C1202y. Intermediate Chinese.** 8 points.  
MISS PAN. M Tu W Th F 9.
- Chinese G4005x—G4006y. Advanced Chinese.** 8 points.  
MR. LO. M W F 4:10—5:25.
- Chinese G4031x—G4032y. Chinese Literature.** 6 points.  
PROFESSOR HSIA. Tu Th 10.
- Chinese G4033x. Modern Chinese Literature.** 3 points.  
PROFESSOR HSIA. Tu Th 11.
- Chinese History G6825x—G6826y. History of Modern China.** 6 points.  
PROFESSOR WILBUR. W 2:10—4.
- Chinese G6027x. Introduction to Chinese Thought.** 3 points.  
PROFESSOR DE BARY. F 2:10—4.
- History—Japanese G6839x—G6840y. History of Modern Japan.** 6 points.  
PROFESSOR WEBB. Tu Th 1:10.
- History—Japanese G6833x—G6834y. History of Japanese Civilization.** 6 points.  
PROFESSORS MORRIS and WEBB. Tu Th 11.
- Indic G6401x. The Legacy of India.** 3 points.  
PROFESSOR ----- .
- Indic G6402y. Religions and Philosophies of India.** 3 points.  
PROFESSOR ----- .
- Japanese C1101x—C1102y. Elementary Japanese.** 8 points.  
PROFESSOR HAKEDA. M Tu W Th F 9.
- Japanese C1201x—C1202y. Intermediate Japanese.** 8 points.  
PROFESSOR HAKEDA. M Tu W Th F 10.
- Japanese G4005x—G4006y. Contemporary Japanese.** 8 points.  
PROFESSOR SHIRATO. M W F 11—12:15.
- Japanese G4031x—G4032y. Japanese Literature.** 6 points.  
PROFESSOR KEENE. Tu Th 10.
- Sanskrit G4101x—G4102y. Elementary Sanskrit.** 6 points.  
PROFESSOR ----- .



# PHILOSOPHY

PROFESSORS: JOSEPH GERARD BRENNAN (Chairman), MARY MOTHERSILL

ASSOCIATE: STANLEY MOORE

LECTURERS: VIRGINIA POTTER HELD, PATRICIA SANBORN

The major in philosophy is designed to give the student knowledge of the systems of speculative thought framed by the principal thinkers of western civilization; to acquaint her with important problems concerning the scope and reliability of human knowledge, concepts of being, and the meaning of moral values; and to provide her with training in philosophical techniques appropriate to these problems. To achieve these objectives, majors in philosophy are required to take both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalent: 1; 5; 22; 61, 62, and in the senior year, the seminar, 65-66. A six-hour written major examination at the end of the senior year is required. Qualified senior majors are permitted to enroll in philosophy courses offered by the Graduate Faculties of Columbia University. Permission for such enrollment should be obtained from the chairman of the Barnard department.

## **1x (or 1y). Introduction to Philosophy. 3 points.**

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge. Readings from historical and contemporary sources. PROFESSORS BRENNAN, MOTHERSILL, DR. MOORE, MRS. HELD and MISS SANBORN.

Section I M W F 9. [1]

Section III M W F 11. [3]

Section II M W F 10. [2]

Section IV Tu Th 10:35-11:50. [7]

## **4. Metaphysics. 3 points. [4]**

Problems such as substance, causality, and the nature of being will be treated. Readings will include selections from Aristotle, Kant, Whitehead and representatives of recent analytic, naturalist, and existentialist traditions. Prerequisite: Course 1 or the equivalent. \_\_\_\_\_ . M W F 1:10.

## **5. Logic. 3 points. [4]**

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by an introduction to symbolic logic. PROFESSOR BRENNAN. M W F 1:10.

## **7. Theory of Knowledge. 3 points. [6]**

A general account of the concepts of belief, knowledge, evidence, judgment, and error. Readings from Plato, Hume, Russell, Moore, Ayer and Ryle. Prerequisite: Course 1. PROFESSOR MOTHERSILL. Tu Th 9:10-10:25.

## **[9. Philosophy of Religion. 3 points.**

Not given in 1964-65.]

## **22. Ethics. 3 points. [6]**

An introduction to the central problems of moral philosophy. Among the topics covered are: action and reasons for action; pleasure and pain; obligation, rights,

and duties; alternative moral ideals; the use of moral language. Prerequisite: Course 1 or the permission of the instructor. PROFESSOR MOTHERSILL.  
Tu Th 9:10–10:25.

**26. Social Philosophy.** 3 points. [7]

Examination of the social philosophies of Rousseau, Hegel, and Marx, centering upon the themes of individualism, rationalism, and alienation. Among the works studied will be Rousseau's *Discourses*; Hegel's *Philosophy of History* and *Phenomenology of Mind*; *The German Ideology* of Marx and Engels, and Engels' *Feuerbach*. Prerequisite: Course 1 or equivalent. DR. MOORE. Tu Th 10:35–11:50.

**41. Aesthetics.** 3 points. [7]

Analysis of basic concepts in theory of criticism. Among the topics covered: aesthetic experience, form and content, expression, art as language, the problem of belief, the judgment of taste. Prerequisite: Course 1. PROFESSOR MOTHERSILL.  
Tu Th 10:35–11:50.

**43. Philosophical Implications of the Modern Novel.** 3 points. [3]

Problem of relation of philosophy to literature. Twentieth century European novels will be read, including works by Joyce, Gide, Mann, Proust, Hesse, Graham Greene, Camus. Not open to freshmen. PROFESSOR BRENNAN. M W F 11.

**61, 62. History of Philosophy.** 6 points. [2]

Autumn Term: Plato to Aquinas. Spring Term: Descartes to Hegel. Course 61 is a prerequisite for Course 62. DR. MOORE. M W F 10.

**63, 64. Supplementary Readings in Philosophy.** 2 points. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. DR. MOORE (or the instructor in the course to which the extra hours of reading are attached). Hour to be arranged for individual or group conferences.

**65–66. Senior Seminar.** 6 points. [0]

An intensive study of selected philosophical classics. Autumn Term: Plato. Spring Term: Hegel. Discussion, oral reports, and term papers. Required of all majors in the senior year. Open to other qualified seniors by permission of the instructor. PROFESSOR MOTHERSILL and DR. MOORE. Tu 3:10–5 and conference hours to be arranged.

**[74. Schopenhauer, Nietzsche, and Bergson.** 3 points. PROFESSOR BRENNAN.

Not given in 1964-65.]

**76. Twentieth Century Philosophy.** 3 points. [5]

Philosophies of evolution; Bergson; Whitehead; dialectical materialism; Dewey; Sartre. PROFESSOR BRENNAN. M W 2:10 and a conference hour.

**84. The Philosophy of Education.** 3 points. [4]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. Not open to freshmen. PROFESSOR BRENNAN. M W F 1:10.

# PHYSICAL EDUCATION

ASSOCIATE PROFESSORS: MARION STRENG, FERN YATES

ASSISTANT PROFESSOR: MARION R. PHILIPS

ASSOCIATES: EDITH G. MASON, JEANETTE SCHLOTTMANN ROOSEVELT (Chairman)

INSTRUCTORS: EDITH ABBOTT, SANDRA GENTER

The program is organized and administered by the Department of Physical Education in cooperation with the Medical Department and the Athletic Association. It is designed to provide the students with knowledge, skills, habits and attitudes concerning health, physical activity, and recreation.

The Faculty requires physical education during the freshman, sophomore, and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department. Since the objectives and scope of the work in modern dance and fencing are related to practical theatre, students who major in English and specialize in drama are urged to take courses in this area.

**Medical examinations and posture analysis:** Two complete medical examinations by the College Physician are required of all students during the four years. One complete posture examination is required by the Department of Physical Education upon entrance. Subsequent posture examinations will be given whenever indicated. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

**Freshman requirement:** Three hours per week on different days. During the first term two of these hours are prescribed body mechanics and rhythmic fundamentals. The third hour is elective.

Section I M W 12:10.

Section IV M W 3:10.

Section II M W 1:10.

Section V Tu Th 9.

Section III M W 2:10.

Section VI Tu Th 11.

**Sophomore and Junior requirement:** Two hours per week on different days.

**Registration:** Held in the Gymnasium, Barnard Hall simultaneously with registration for academic courses. See College Calendar for specific dates, page 4.

Exception: Registration for Fall Term indoor season and Spring Term outdoor season is held separately prior to the beginning of these two seasons of activities.

**Program of activities:** Two sessions each term: fall-winter; winter-spring.

The program is posted on the Physical Education bulletin board two weeks prior to the registration dates.

Fall and Spring: archery; body conditioning; body mechanics; correctives; folk dancing; golf; modern dance; movement education; swimming—all levels, including



## PHYSICAL EDUCATION

synchronized swimming, Red Cross life saving; water-safety instructor's course; tennis; volley ball.

Winter each term: archery (indoor); badminton; basketball; bowling (special fee—\$6.50); body conditioning; fencing; folk-square dance; golf; modern dance; movement education; swimming—all levels, including synchronized swimming, Red Cross life-saving, water-safety instructor's course; tennis; volley ball.

Greek Games—athletics and/or dance are scheduled for the spring term indoor season only.

In all of these activities students are advised to register according to their skill level i.e., beginning, intermediate, or advanced.

**Prescribed costume:** Students are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$22.

**Recreational Leadership 1.**      2 points.      [13]

This course is planned to give students an understanding and appreciation of the field of recreation. Lectures, discussions, practice and participation in activities, such as community music, arts and crafts, informal dramatics, story-telling, games.      MRS. MASON.      M W 4:10 and a third hour for field work.

# PHYSICS

PROFESSORS: HENRY A. BOORSE (Chairman and Dean of the Faculty), <sup>1</sup>POLYKARP KUSCH

ASSISTANT PROFESSOR: ROBERT W. FULLER

ASSISTANTS: -----, -----

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: SAMUEL DEVONS, WILLIAM W. HAVENS, JR., LEON M. LEDERMAN, ROBERT NOVICK, ALLAN M. SACHS, JACK STEINBERGER, CHIEN SHIUNG WU

ASSISTANT PROFESSORS: SVEN HARTMANN, ROBERT L. MIEHER, JEROME ROSEN

ADJUNCT ASSOCIATE: ALFRED J. REDFIELD

Students interested in taking any course in physics should consult the department in 223 Milbank. A student intending to major in physics should begin her courses in the freshman year, starting with Courses C1006y, C1007x, C1009x, C1008y, C1010y. In special cases students who have begun with Course 3—4 may continue as physics majors with a program to be worked out by the department. The first course for majors, C1006y, is given in the spring, to enable the student to have completed the first term of the calculus sequence before beginning to study physics. Other courses to be taken subsequently by physics majors are arranged individually with the department; these should include the five terms of the calculus sequence, or the equivalent, and one year of chemistry, though, in special cases, astronomy or a biological science may be substituted. The major examination consists of the Graduate Record Examination in physics and a one-hour oral examination.

The best opportunities for women in the field of physics are open to those with graduate training. Financial assistance is readily available to qualified graduate students in the form of fellowships, and teaching and research assistantships, offered by graduate schools throughout the country. For students both with and without graduate training many opportunities exist in laboratories operated by the federal government, e.g. by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission and the Public Health Service; in laboratories operated by state and local governments; and in laboratories operated by many industrial firms and research institutes. In particular, medical physics constitutes an important and growing field of specialization, while teaching in the public and private school systems offers challenging positions for those interested in education and public service.

## **C1001x—C1002y. Elementary Physics. 8 points.**

An introductory treatment of crucial experiments and theories of physics: particle mechanics; heat and kinetic theory of gases; electromagnetism; wave motion; atomic spectra and the Bohr theory of the hydrogen atom; nuclear reactions; elementary particles. A terminal course for liberal arts students who do not need

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<sup>1</sup> Absent on leave, 1964-65.

a laboratory course as a basis for further scientific or professional training. Pre-requisite: high school mathematics through intermediate algebra. This course does not fulfill the physics requirement for admission to medical school. Credit is not given for both Course C1001–C1002 and Courses C1006, C1007, C1008. PROFESSOR ————, Tu Th 11–12:15. One hour of discussion to be arranged.

**3–4. General Physics.** 10 points. [9]

Autumn Term: Mechanics, heat and optics. Spring Term: Electricity, magnetism and modern physics. Parallel: Calculus I. PROFESSOR FULLER and assistants. Lec. Tu Th 2:10–3:25. Three hours of laboratory and one recitation hour, to be arranged at the first meeting of the class.

**C1006y. General Physics, I. Mechanics and Heat.** 4 points.

Fundamental laws of mechanics: kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws. Prerequisite: Mathematics C1105 or the equivalent. Parallel: Mathematics C1106 or the equivalent. ————. Lec. and recit. M W F 9. Problem sec: two consecutive hours to be arranged.

**C1007x. General Physics, II. Electricity and Magnetism.** 3 points.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion. Prerequisite: Course C1006. Parallel: Course C1009 and Mathematics C1205 or their equivalents. ————. Lec. and recit. M W F 9.

**C1008y. General Physics, III. Light and Atomic Physics.** 3 points.

Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Course C1007. Parallel: Course C1010. PROFESSORS STEINBERGER and SCHWARTZ. Lec. Tu Th 10. Recit: one hour to be arranged after the first meeting.

**C1009x–C1010y. Physical laboratory.** 3 points.

Selected quantitative experiments in mechanics, heat, electricity, optics, and atomic and nuclear physics. Prerequisite: Course C1006. Parallel: Course C1007–C1008. PROFESSOR SACHS. Three consecutive hours of laboratory to be arranged after the first lecture in Courses C1007 and C1008.

**W3072y. Seminar in Current Research Problems.** 2 points.

A detailed study of a selected field of active research in physics. Informal discussion of the motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems in this particular field. Prerequisite: Courses G4004 and G4008 or the equivalent, and the permission of the departmental representative. ————. W 4:10–5:25.

**W3081x–W3082y. Intermediate Laboratory Work.** 2 to 8 points.

Experiments are available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics, and nuclear physics. An individual program of



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experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed. PROFESSOR HAYNER and others. One four-hour laboratory period weekly for each two points. Hours to be arranged by the instructor. Laboratory sections: M Tu W F 1:10–5; Th 6:30–10:30 p.m.; S 10–1:50.

## GRADUATE COURSES

For further information, see the Announcement of the Graduate Faculties.

### **G4003x–G4004y. Mechanics. 6 points.**

Dynamics of particles and rigid bodies. Prerequisite: general physics and integral calculus. PROFESSOR SACHS. M W F 10.

### **G4007x–G4008y. Theory of Electricity and Magnetism. 6 points.**

A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed toward the formulation of Maxwell's equations and includes some application of general principles to phenomena associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves. Prerequisite: an intermediate course in electricity and magnetism (Course C1007 is equivalent) and differential and integral calculus. ————. Lec. Tu Th 8:35–9:50 a.m.

### **G4009x. Light 3 points.**

Physical and geometrical optics. Prerequisite: general physics and integral calculus. PROFESSOR MIEHER. M W 4:10–5:25.

### **G4013x. Thermodynamics. 3 points.**

General principles of thermodynamics; the two fundamental laws; entropy; free energy; thermodynamic potentials, and applications. Prerequisite: Courses C1006, C1007, C1008, or their equivalents; integral calculus; Course G4007–G4008. PROFESSOR REDFIELD. M W F 11.

### **G4015x. Atomic Physics. 3 points.**

Spectroscopic and other atomic phenomena which form the experimental basis of modern quantum theory. The important experiments and their historic role in the development of atomic theory. Prerequisite: Courses C1006, C1007, and C1008 or their equivalents, and two additional terms of course work in intermediate or advanced physics. PROFESSOR NOVICK. M W F 9.

### **G4016y. Elementary Quantum Mechanics. 3 points.**

The Schrödinger Equation and its simpler applications to atomic structure. Potential well and barrier problems. Quantum theory of angular momentum and elementary perturbation theory. Physical interpretation of wave mechanics. Prerequisite: Course G4015 or the equivalent. PROFESSOR NOVICK. M W F 9.

**G4040x (or G4040y). Nuclear Physics. 3 points.**

An introductory course in nuclear physics. General properties of nuclei, the systematics of stable nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection, high-energy accelerators, nuclear reactions and artificial radioactivity, neutrons and nuclear fission, properties and interaction of mesons. Prerequisite: Courses C1006, C1007, C1008, or their equivalents, and two additional terms of course work in intermediate or advanced physics, one of which should be Course G4015 or the equivalent. Autumn Term: PROFESSOR HAVENS. Spring Term: PROFESSOR WU. Tu Th 11–12:15.

# PSYCHOLOGY

PROFESSOR: RICHARD P. YOUTZ (Chairman)

ASSOCIATE PROFESSOR: —————

ASSISTANT PROFESSORS: PHEBE CRAMER, MICHAEL G. KENNEDY, BARBARA S. SCHMITTER

LECTURERS: PETER F. MACNEILAGE, BARBARA MATES, ROBERT J. ROGERS

ASSISTANTS: RONNIE BRANCAZIO, EDWARD S. COBB, AMY GOLDBLATT, FELICE W. GORDIS, BATYA MAX, ARNOLD P. NERENBERG, KATHLEEN RIORDAN

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in graduate school.

(a) General major. A student completing this major will have a good general background for activities in psychology or related fields, such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology. Courses 1; 5; 8; 9; 12; one, or both, of 57 and 68, and other courses selected in consultation with the department to complete the required 28 points.

Other fields. One course in philosophy (3 points) or Anthropology 1, 2; a one-year laboratory course (8 points) in zoology, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

(b) Students who plan to obtain post-graduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the general major, include Courses 15; 27, and at least two of the following: Courses 18; 21; 25; 38.

(c) Students interested in professional work in business or personnel may modify the requirements of the general major so that the required work in other fields is as follows: Economics 1–2; 17, 18; and 19.

(d) Students who wish to take post-graduate work in experimental psychology should add the following to the requirements for the general major: Courses 57 and 68. In other fields work should include: full-year laboratory courses in two of the following: zoology (or biology), physics, or chemistry; mathematics through Course 15.

The major examination. This consists of sections on: (1) general information and integration (three hours); (2) experimental design and techniques (one hour); and (3) areas of special interest (one hour). Students fulfilling any one of the four plans will have completed preparation for the major examination.

Biological Science Requirement: The degree requirement in biological science may be satisfied by taking any two of the following courses: 5; 8; 12; 27; 30.



**1x (or 1y). Introduction to Psychology. 3 points. [11]**

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. PROFESSORS CRAMER, KENNEDY, TIGHE, and YOUTZ, DR. MACNEILAGE and MRS. MATES.

Section I M W F 10. Section II M W F 11. Section III Tu Th 10:35—11:50.

**5. Psychology of Learning. 4 points. [8]**

The basic methods, results, and concepts in the experimental analysis of learning. The laboratory work consists of a series of individual experiments, several group experiments, and the preparation of systematic reports of results. Prerequisite: Course 1 or the equivalent. MR. ROGERS and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) Tu 2:10—5, W 1:10—4.

**5a. Psychology of Learning. 2 points. [8]**

Lectures identical with those of Course 5. No laboratory work. Prerequisite: Course 1 or the equivalent. MR. ROGERS. Tu Th 11.

**8. Perception. 4 points. [8]**

An introduction to the problems, methods and results of studies in perceptual behavior. The literature will be surveyed; key experiments will be discussed in detail. Problems of definition and experimental method will be emphasized. In the laboratory students will conduct a series of typical experiments and will prepare systematic reports of their results. Prerequisite: Course 1 or the equivalent. PROFESSOR KENNEDY and assistant. Lec. Tu Th 11. Lab. (1 hour lecture, 2 hours projects) M 1:10—4; Tu 2:10—5.

**8a. Perception. 2 points. [8]**

Lectures identical with those of Course 8. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR KENNEDY. Tu Th 11.

**9. Statistical Design. 4 points. [2]**

An introduction to statistics and experimental design in psychology and allied subjects. Descriptive statistics, probability and elementary procedures of statistical inference will be treated. The laboratory will provide students with empirical demonstrations of theorems used, but not mathematically derived, in the lectures, together with practice in the application of elementary statistical methods. Prerequisite: Course 1 or the equivalent. PROFESSOR KENNEDY and assistant. Lec. M W F 10. Lab. (2 hours) M 1:10—3, Tu 2:10—4.

**12. Psychological Measurement. 4 points. [2]**

Introduction to test theory, including concepts of item construction, standardization, reliability, validity, and motivation. Emphasis is on design and research related to major categories of current tests. Laboratory projects will be concerned with constructing and evaluating test items under experimental conditions, with assessing various methods of test administration, and with the quantitative proce-

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dures necessary for such evaluations and assessments. Prerequisite: Course 1 and one course in statistics. PROFESSOR SCHMITTER and assistant. Lec. M W 10. Lab. (1 hour lecture, 2 hours projects) W 2:10–5, Th 2:10–5.

### 12a. Psychological Measurement. 2 points. [2]

Lectures identical with those of Course 12. No laboratory work. Prerequisite: Course 1 and one course in statistics. PROFESSOR SCHMITTER. M W 10.

### 15. Theories of Learning. 3 points. [6]

A comparative study of the major scientific accounts of the learning process. The course stresses exposition and evaluation of each theory in terms of structure, scope, research and potential applications, and in relation to other forms of psychological theory. Prerequisite: Course 5 or 5a or the equivalent. DR. MAC-NEILAGE. Tu Th 9:10–10:25.

### 18. Physiological Psychology. 4 points. [1]

An introduction to the study of the relationships between bodily processes and behavior. Emphasis is placed upon the basic anatomy and physiology of sensory and motor functions, motivation, emotion, learning, and behavior disorders. The laboratory consists of individual and group experiments in these areas of study, and exercises on the anatomy of sense organs and the brain. Prerequisite: Course 5 or 8 or the equivalent. MR. ROGERS and assistant. Lec. M W 9. Lab. (1 hour lecture, 2 hours projects) W 10–12:50, Th 2:10–5.

### 18a. Physiological Psychology. 2 points. [1]

Lectures identical with those of Course 18. No laboratory work. Prerequisite: Course 5 or 8 or the equivalent. MR. ROGERS. M W 9.

### 21. Abnormal Psychology. 3 points. [4]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including principles of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses. Open to juniors and seniors who have had Course 1. PROFESSOR YOUTZ. M W 1:10 and consultation in connection with readings for the third point.

### 23. Applications of Psychological Techniques. 4 points. [4]

Uses and limitations of tests and other psychological techniques in the fields of education, vocational guidance and selection, industrial efficiency, and advertising and selling. Includes a survey of programmed learning techniques and methods of constructing self-teaching programs. Laboratory projects will be concerned with sample applications. Prerequisite: Course 1 or the equivalent. MRS. MATES and assistant. Lec. M W 1:10. Lab. (1 hour lecture, 2 hours projects) M 2:10–5, Th 2:10–5.

### 23a. Applications of Psychological Techniques. 2 points. [4]

Lectures identical with those of Course 23. No laboratory work. Prerequisites: Course 1 or the equivalent. MRS. MATES. M W 1:10.



- 25. Psychology of Personality.** 3 or 4 points. [2]  
 Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Consideration is given to practical aspects of personal adjustment as it is influenced by changing social pressures. Prerequisite: Course 1 or the equivalent. PROFESSOR SCHMITTER. M W F 10, and conferences in connection with a paper for the fourth point. Fourth point requires written permission of the instructor.
- 27. Developmental Psychology.** 4 points. [3]  
 Comparative and experimental analysis of transitions from simple to complex behavior characteristics of individual and evolutionary development. Major emphasis on human ontogeny from conception to maturity. The laboratory includes experiments and demonstrations of (a) genetic and environmental factors in behavior development of animals and (b) comparative studies of sensori-motor, intellectual, linguistic and social development of children. Prerequisite: Course 1 or the equivalent. PROFESSOR CRAMER and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) M 1:10–4, Th 2:10–5.
- 27a. Developmental Psychology.** 2 points [3]  
 Lectures identical with those of Course 27. No laboratory work. Prerequisite: Course 1 or the equivalent. PROFESSOR CRAMER. M W 11.
- 30. Psychology of Thinking.** 4 points. [3]  
 Survey of contemporary experimental approaches to the understanding of concept formation and problem-solving behavior, derived from learning theory, psycho-linguistics, logic, and information theory. The laboratory will consist of experiments and demonstrations of thinking behavior in animals, children, and adults. Prerequisite: Course 5 or 5a. PROFESSOR CRAMER and assistant. Lec. M W 11. Lab. (1 hour lecture, 2 hours projects) W 1:10–4, Th 2:10–5.
- 30a. Psychology of Thinking.** 2 points. [3]  
 Lectures identical with those of Course 30. No laboratory work. Prerequisite: Course 5 or 5a. PROFESSOR CRAMER. M W 11.
- 38. Social Psychology.** 3 or 4 points. [6]  
 An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1. May be counted towards the requirement in contemporary society. PROFESSOR KENNEDY. Tu Th 9:10–10:25, and conference hour in connection with a project or paper for the fourth point.
- 45x (or 45y). Field Work.** 1 or 2 points.  
 A field work project may be undertaken in connection with any course except Course 1. The project should be planned in conjunction with the course instructor; his written permission is required. Supervised by PROFESSOR MEYER. Hours to be arranged.



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**48x (or 48y). Individual Projects.** 1, 2, or 3 points. [0]

Research projects will be planned in consultation with members of the department. Open to majors who have Courses 5 and 8, on written permission of the member of the department who supervises the project. PROFESSORS CRAMER, KENNEDY, SCHMITTER, YOUTZ and MR. ROGERS. Hours to be arranged.

**57. Systems of Psychology.** 3 points. [8]

A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Prerequisite: Courses 5 and 8 or the equivalent. PROFESSOR YOUTZ. Tu Th 11.

**68. Case Histories in Experimental Design.** 3 points. [8]

Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Courses 5 and 8 or the equivalent. PROFESSOR YOUTZ. Tu Th 11.

# RELIGION

ASSOCIATE PROFESSORS: <sup>1</sup>URSULA M. NIEBUHR, HAROLD STAHMER (Chairman)

INSTRUCTOR: HENRY BOOKOUT, JR.

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

CHAPLAIN OF THE UNIVERSITY: JOHN M. KRUMM

PROFESSORS: JOSEPH L. BLAU, HORACE L. FRIESS

ADJUNCT PROFESSORS: THEODOR H. GASTER, JOHN MEYENDORFF

ASSOCIATE PROFESSOR: JACOB TAUBES

ADJUNCT ASSISTANT PROFESSOR: DAVID WEISS

ASSISTANT PROFESSORS: ROBERT STIGLER, IVAN VALLIER, ANTON ZIGMUND-CERBU

INSTRUCTORS: ROBERT F. OLSON, PETER A. PARDUE

TEACHING ASSISTANT: CHUN-FANG YU

The purpose of the program is to introduce the field of religion, to present the documents, history and thought of the great religious traditions of East and West, and to consider their influence upon contemporary questions.

The program of study for a major in religion is to be planned in consultation with members of the department preferably by the end of the sophomore year. The student chooses one of two sequences of study: A. Western Religion and the Theory and Functions of Religion. B. Eastern Religion and the Theory and Functions of Religion.

Courses: Normally 30 points including Course V1101–V1102 and six points of seminar work. Students specializing in Sequence A should include a minimum of three points in Eastern Religion and three points in the Theory and Functions of Religion. Students specializing in Sequence B should include a minimum of three points in Western Religion and three points in the Theory and Functions of Religion. Students are expected to take 12 points of course work in two related departments. All course selections must be made in conjunction with the major adviser. Students considering graduate work are strongly advised to develop a reading knowledge of such languages as Hebrew, Greek, Latin, and Chinese, depending on the area of concentration.

The comprehensive examination consists of: Two three-hour papers, the first, historical, designed to test material in the elected sequence; the second, theoretical and interpretative of the whole field.

A senior essay is not obligatory; however, students of high standing may be invited to submit one as a fulfillment for Course 35, 36. In that case students should submit a proposed topic for their research by April 1 of their junior year.

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<sup>1</sup> Absent on leave, 1964-65.

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### **V1101x–V1102y (or V1102x–V1101y). Introduction to the Study of Religion.** 6 points.

The phenomenology of religious experience and the historical forms of religious life. A study of the presuppositions, data and documents of the religions of East and West. Autumn Term: The ancient religions of the Near East and Greece; major themes in Judaism and Christianity. Spring Term: Recurrent themes in religions of the East. MEMBERS OF THE DEPARTMENT.

Section I M W 2:10–3:25.

Section II Tu Th 9:10–10:25. (Primarily for Barnard students)

Section III M W 5:40–6:55.

Section IV M W 2:10–3:25 (V1102x–V1101y). For those wishing to begin the course with the study of Eastern religions.

## WESTERN RELIGION

### **V3201x. Introduction to the Old Testament.** 3 points.

Hebrew religion. Its beginning and nature. Ancient myths, stories, and records. Moses: Israel as the covenant people. The prophets. The exile and development of Judaism. MR. BOOKOUT and -----.

Section I Tu Th 10:35–11:50. (Primarily for Barnard students)

Section II Tu Th 6:10–7:25 p.m.

### **V3202y. Introduction to the New Testament.** 3 points.

The Graeco-Roman world and Jewish background of the first century. The Gospels. The letters of St. Paul. The Book of Acts. The spread of Christianity. MR. BOOKOUT and DR. KRUMM.

Section I Tu Th 10:35–11:50. (Primarily for Barnard students)

Section II Tu Th 6:10–7:25 p.m.

### **W3214y. Introduction to Talmudic Literature.** 3 points.

Documents in the history of post-Biblical literature. Selections from Mishna, Mekhilta, Midrash, and Gemara. Prerequisite: Course V1101, V3201, or the equivalent. DR. WEISS. M W 1:10–2:25.

### **[12. The Ethical Principles of Biblical Thought.** 3 points. PROFESSOR NIEBUHR.

Not given in 1964-65.]

### **14. Early Christianity in the Light of the Classical Heritage.** 3 points [1]

The Church in the world of the Roman Empire. The transformation and incorporation of Greek and Roman religion and philosophy by the Church Fathers. Prerequisite: Course V1101x or its equivalent. MR. BOOKOUT. M W F 9.

### **15, 16. History of Religious Thought in the West.** 6 points. [6]

Autumn Term: Representative religious thinkers from Augustine to Ockham with emphasis upon the faith-reason and universals controversies, the presuppositions of medieval theology, and the significance of the trivium and chiliastic writings.



Spring Term: Representative religious thinking from the Renaissance to 1900 with emphasis upon attitudes toward Biblical translation, language, millenarian tendencies and the presuppositions of selected religious communities and theological systems. PROFESSOR STAHLER. Tu Th 9:10–10:25.

**W3242y. Eastern Christian Thought. 3 points.**

The development of the religious mind in the Christian East since the time of the Greek Fathers. The Byzantine Church: institutions, theology, monasticism, religious art. The Byzantine spiritual and intellectual legacy in the Balkans and the Middle East. Russian religious thought. PROFESSOR MEYENDORFF.  
Tu 3:30–6:30.

**[W3235x. Catholic Thought After Trent. 3 points. PROFESSOR ULANOV.**  
Not given in 1964-65.]

**G4207x–G4208y. History of Judaism. 3 points.**

History of the Jewish religion from its beginning to contemporary manifestations in Israel and the United States. Autumn Term: Early background and formation of Judaism. Spring Term: Rabbinic period to the present. PROFESSOR BLAU.  
M 7:10–9 p.m.

**G4311x. Ancient Near Eastern Religions. 3 points.**

A comprehensive introduction to the religious ideas, practices, and writings of the Egyptians, Mesopotamians, Hittites, Canaanites, and Israelites. The texts are read in translation. Prerequisite: Course V1101 or written permission of a departmental representative. PROFESSOR GASTER. Th 4:10–6.

EASTERN RELIGION

**W3251y. History of Hinduism. 3 points.**

The relationship between Hindu religious values and Indian social institutions. Problems of defining “Hinduism” within the wider range of India’s cultural life, and its development in dialogue with other religions and ideologies in its environment. Prerequisite: Course V1102 or permission of the instructor. MR. PARDUE.  
Tu Th 2:10–3:25.

**W3252x. History of Buddhism. 3 points.**

Change and continuity in the development of Buddhist thought and institutions during the expansion of Buddhism from India to Tibet, China, and Japan. Prerequisite: Course V1102 or permission of the instructor. MR. OLSON. Tu  
Th 2:10–3:25.

**W3253x. Chinese and Japanese Religious Thought. 3 points.**

An introductory survey of native, non-Buddhist religions and philosophical movements in China and Japan. Emphasis shifts from China to Japan in alternate years (Japan in 1964-1965). Prerequisite: Course V1102 or permission of the instructor. PROFESSOR ZIGMUND-CERBU. Tu Th 8:35–9:50 a.m.

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### **W3302y. History and Sociology of Religions in Southeast Asia. 3 points.**

The developing role of religion in the societies of Burma, Thailand, Cambodia, Laos, Vietnam, and Indonesia with an analysis of the forms of their religious thought and life. Prerequisite: Course V1102 or the equivalent. PROFESSOR ZIGMUND-CERBU. Tu Th 8:35–9:50 a.m.

## THEORY AND FUNCTIONS OF RELIGION

### **25. Religion in Contemporary Society. 3 points. [9]**

An introduction to the theological and intellectual background of religion in contemporary America. Occasional guest lecturers will discuss relevant legal, sociological, and theological questions. Term paper optional. May be counted towards the contemporary society requirement. Open to all except freshmen. PROFESSOR STAHLER. Tu Th 2:10–3:25.

### **26. Religion in Contemporary Culture. 3 points. [9]**

Religion, its meaning and expression in contemporary culture. The impact of modern social and psychological theories on religious ideas of human nature. Problems of alienation, adaptation, and identity. Visiting lecturers present viewpoints of contemporary literature and of the social and psychological disciplines. Term paper or short reports. May be counted towards the contemporary society requirement. Open to all except freshmen. PROFESSOR STAHLER. Tu Th 2:10–3:25.

### **Sociology F3400x. Sociology of Religion. 3 points.**

A comparative analysis of the relationship between religion and society, with emphasis on religious ideas and symbol systems, modes of religious action, religious organizations, and religious movements. Application of sociological theory to special problems; religion in industrial, complex societies; nationalism and religion in new nations; religion as a source of conflict, cleavage, and social change. PROFESSOR VALLIER. Tu Th 4:10–5:25.

### **[Anthropology W3042y. Primitive Religion. 3 points. PROFESSOR ALLAND.**

Not given in 1964-65.]

### **G4401x. Role of Language in Religious Existentialism. 3 points.**

The significance of the spoken word, encounter, and time in the writings of J. G. Hamann, Martin Buber, Ferdinand Ebner, Franz Rosenzweig, and Eugen Rosenstock-Huessy. Prerequisite: permission of the instructor. PROFESSOR STAHLER. W 3:10–5.

## SEMINARS AND READING COURSES

### **[41. Seminar: The Literature of Introspection in Western Religion.**

3 points. PROFESSOR NIEBUHR.

Not given in 1964-65.]

**W3503x–W3504y. Seminar: Western Religious Thought. 3 points.**

Chief directions and themes of western religious thought during the last two centuries, when ideas of human nature and mind had become central to interpretation. [W3504y not given in 1964-65.] PROFESSOR FRIESS. M 3:10–5.

**W3551x–W3552y. Seminar: Eastern Religious Thought. 3 points.**

Each term may be taken separately. Autumn Term: The Krishnaic gospel; the Bhagavata Purana myth; devotional tension and philosophy as seen in these aspects of Hinduism. Spring Term: The early development of Upanishadic thought and the origins of Buddhism. Sources include late Vedic hymns, Brahmanic and early Upanishadic texts, and canonical Theravadin scriptures. Autumn Term: PROFESSOR ZIGMUND-CERBU. Spring Term: MR. OLSON. W 3:10–5.

**[G4453y. Seminar: Hegel and Heidegger. 3 points. PROFESSOR TAUBES.**

Not given in 1964-65.]

**35, 36. Guided Reading and Research. 6 points. [0]**

A program of study designed to give outstanding majors in religion an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program. Consultation periods to be arranged with adviser. PROFESSOR STAHLER and MR. BOOKOUT.

**GRADUATE COURSES**

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified majors. Descriptions may be found in the Announcement of the Graduate Faculties.



# RUSSIAN

INSTRUCTORS: LYDIA W. KESICH (Departmental Representative), ZOYA TRIFUNOVICH

LECTURERS: VERA CARPOVICH, TANIA COSMAN, NATHALIE S. NABOKOFF

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSOR: RUFUS W. MATHEWSON, JR.

ASSOCIATE PROFESSOR: ROBERT L. BELKNAP

ASSISTANT PROFESSORS: RICHARD A. GREGG, ROBERT A. MAGUIRE

ASSOCIATES: BELLA NEMANOFF, ROSE RASKIN

The study of Russian gives the student a key to a rich cultural and literary tradition and introduces her to one of the important critical languages of our time. In many professions and specializations there is need for people with the ability to use the language.

A major in Russian is open to Barnard students in cooperation with Columbia College. The program is designed to provide a working knowledge of the language and enable the student to read the great Russian writers with facility and critical appreciation. Majors must complete Course 4 or the equivalent before the beginning of their junior year. They are expected to take 28 points of work above the elementary level. Normally these will include Courses 3–4, C3334x, and C3595x–C3596y, and at least nine additional points of language and literature courses given in Russian. C1225x–C1226y is also required for the major, although it may not be included within the required 28 points.

Allied subjects: History 37, 38 is especially recommended to majors. Students majoring in Russian should also select courses in other literatures and the humanities.

The major examination consists of a three-hour written section and an oral section. A senior essay is required as part of the senior seminar.

Foreign language requirement for the degree: All students who intend to satisfy the foreign language requirement in Russian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Courses 5, 6 or C3333y and C3334x or C3335x–C3336y with a minimum grade of C–, or Course 5 or Course C3333y or Course C3335x with a minimum grade of B+.

## LANGUAGE COURSES

### 1–2. Elementary Full-year Course. 8 points. [15]

The essentials of the spoken and written language, with classroom instruction devoted mainly to the study of grammar and to reading; oral practice sessions held in small groups. Work in the language laboratory is part of the course.

MRS. KESICH. Language analysis: Section I M W F 10. Section II  
M W F 12:10. MRS. CARPOVICH. Oral practice: M W 1:10 or M W 3:10 or  
Tu Th 11. Other hours to be arranged.

**3-4. Intermediate Course. 8 points. [5]**

A review and continued study of grammar; composition, reading of moderately difficult texts, and oral practice groups. Prerequisite: Course 2 or the equivalent. MRS. TRIFUNOVICH. Language analysis: M W F 2:10 MRS. COSMAN and  
MRS. NABOKOFF. Oral practice: W F 9 or W F 11 or W F 1:10. Other hours  
to be arranged.

**9, 10. Advanced Conversation. 4 points. [0]**

Class discussion and oral reports in Russian, based on selected readings. Pre-  
requisite: Open to students enrolled in third-year literature courses at Barnard  
or Columbia, or with permission of the instructor. MRS. TRIFUNOVICH. Sec-  
tion I W F 1:10 Section II M F 10.

**C3335x-C3336y. Advanced Language Course, Third Year. 8 points.**

For students who want more skill in writing, speaking, and reading Russian. Rec-  
ommended for students who plan to use Russian in their studies. Prerequisite:  
Course 4 or equivalent. MISS RASKIN. M W F 2:10. Oral practice ses-  
sions in small groups, to be arranged.

**V3435x-V3436y. Advanced Language Course, Fourth Year. 6 points.**

A continuation of C3335x-C3336y, with a systematic consideration of phonetics,  
morphology, and syntax. Drills and written assignments. Prerequisite: Course  
C3336y or equivalent. MRS. NEMANOFF. M W 5:40-6:55.

## LITERATURE COURSES

Courses marked thus § will count towards the college requirement in literature.

**§5, 6. Readings in Russian Literature. 6 points. [4]**

Reading of nineteenth and twentieth-century literary texts. Compositions, class  
discussion, oral reports in Russian. Prerequisite: Course 3-4 or an appropriate  
score on the placement examination. MRS. KESICH. M W F 1:10.

**C1225x-C1226y. Survey of Russian Literature. 6 points.**

Literature from the beginning through the Revolution, with emphasis on the prose  
masterpieces of the nineteenth century. The historical background. The second  
term may be taken without the first with the instructor's permission. A knowledge  
of Russian is not required. Autumn Term: PROFESSOR BELKNAP. Spring Term:  
PROFESSOR GREGG. M W F 11.

**C1227y. Tolstoy and Dostoevsky. 3 points.**

Analysis of the major works of the two writers. A knowledge of Russian is not  
required. PROFESSOR BELKNAP. M W F 10.

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### §C3333y. Russian Prose of the Nineteenth Century. 3 points.

A close reading in the original of works by Lermontov, Gogol, Turgenev, Tolstoi, and Chekhov. Roughly equal attention to literary and linguistic problems. Prerequisite: a grade of B— or better in Course 4, or the equivalent of five terms of Russian. PROFESSOR GREGG. M W F 12:10.

### §C3334x. Pushkin. 3 points.

A close reading of selected works in the original, with lectures on Pushkin's life, times, and literary achievement. Prerequisite: a grade of B— or better in Course 4, or the equivalent of five terms of Russian. PROFESSOR GREGG. M W F 12:10.

### §C3471x. A Russian Novelist. 3 points.

In 1964-65: Gogol. A close study of selected works in the original. Prerequisite: Course 6, C3333y, or the instructor's permission. PROFESSOR MAGUIRE. Tu Th 2:10–3:25.

### §F3876x. Readings in Russian Poetry. 3 points.

Extensive readings in Russian poetry from the second half of the eighteenth century to the present. Commentary and class discussion. Prerequisite: three years of college Russian or the instructor's permission. MISS RASKIN. M F 4:10–5:25.

### C3595x–C3596y. Seminar. 8 points.

Autumn Term: A program of readings and short papers on a specialized topic in Russian literature. Spring Term: Supervised individual research, culminating in a critical paper. Prerequisite: senior standing and permission of the instructor. PROFESSOR MAGUIRE. W 3:10–5.

## GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the representative and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

### G4103x. History of the Russian Language: Introductory Course. 3 points. PROFESSOR STILMAN. Tu Th 2:10.

### G4007x. Russian Literary Criticism in the Nineteenth Century (in Russian). 3 points. PROFESSOR YERSHOV. Tu Th 6:10.

### G4032x–G4033y. Russian Literature from 1880 to the Present. 6 points. PROFESSOR MAGUIRE. Tu Th 5:10.

### G4461y. Chekhov and the Short Story. 3 points. PROFESSOR MATHEWSON. Tu Th 11–12:15.



# SOCIOLOGY

PROFESSORS: BERNARD BARBER (Chairman), <sup>2</sup>MIRRA KOMAROVSKY

ASSOCIATE PROFESSORS: GLADYS MEYER, <sup>1</sup>RENÉE CLAIRE FOX

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, pre-literate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1-2 and other sociology courses to be selected in consultation with the major adviser. Courses 31; 33; 34; 39; 40; 41; 42; 43, 44 are strongly recommended. Economics 17 is the only course given outside the department which may count towards the major.

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

**1-2. Introduction to Sociology. 6 points.**

[18]

An introduction to sociological analysis with emphasis on contemporary American society. Autumn Term: The structure of society. The family and the other major social institutions; class stratification; social groups; ecology of modern communities. Spring Term: Social change and social problems. Population, race and group conflict, social disorganization and crime. Problems of social reorganization. Fulfills the requirement in contemporary society. Open to freshmen. PROFESSORS BARBER, KOMAROVSKY, MEYER, and -----.

Section I M W F 10.

Section II M W F 11.

Section III M W F 2:10.

Section IV Tu Th 9:10-10:25.

**21-22. Introduction to Social Work. 6 points.**

[2]

The social and economic conditions that lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United

<sup>1</sup> Absent on leave, 1964-65.

<sup>2</sup> Absent on leave, Spring Term.

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States. Current trends in the philosophy of social work. Comparative welfare systems.

Field work is required for one half day a week. Placements are arranged in approved social agencies offering supervision. Open to juniors and seniors. Prerequisite: six points of social science other than history. PROFESSOR MEYER.

M W F 10. Hours for field work to be arranged.

### 31. The Family. 3 points. [3]

A study of the American family using comparative materials from other societies. The family cycle from courtship through parenthood and old age with special emphasis upon the marriage relationship. Ethnic and class differences in family life. Recent developments in family theory and research in sociology and related disciplines. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. M W F 11.

### 33. The Community: Rural-Urban Sociology. 3 points. [4]

Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1:10.

### 34. Ethnic and Minority and Intergroup Relations. 3 points. [4]

The composition and distribution of populations, major and minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1:10.

### 38. Special Readings. 2 or 3 points. [0]

Students will read selected classics and other books and monographs exemplifying important developments in contemporary sociology. Brief written assignments. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. M F 11.

### 39. Comparative Social Institutions. 3 points. [10]

The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (United States, Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 3:10.

### [40. Social Stratification. 3 points. PROFESSOR BARBER.

Not given in 1964-65. See Course G6063x.]

### 41, 42. History of Sociological Theory. 6 points. [9]

The major contributions of Comte, Spencer, Sumner, Cooley, Durkheim, Simmel, Sorokin, Parsons, Merton, Weber, and other contemporary American sociologists. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. Tu 2:10-4.

**43, 44. Methods of Sociological Research. 6 points. [7]**

Various qualitative and quantitative methods of social research are presented both from a logical and a sociological point of view. Lectures, critical reading of studies in conjunction with field work exercises. Prerequisite: Course 1–2. Course 43 is prerequisite for Course 44, except by special permission of the department. ————. Tu Th 10:35–11:50.

**[46. Social Structure and Personality. 3 points. PROFESSOR FOX.**

Not given in 1964-65.]

**[81–82. Advanced Field Work. 4 to 6 points. PROFESSOR MEYER.**

Not given in 1964-65.]

**97y. Senior Seminar. 3 points. [10]**

The sociology of science. Permission of the instructor required. PROFESSOR BARBER. W 3:10–5.

**98. Individual Projects. 3 points. [0]**

Individual study under supervision of members of the department. Open to senior majors with the permission of the instructor. PROFESSORS BARBER, KOMAROVSKY, and MEYER. Hours to be arranged.

## COLUMBIA COURSES

Certain graduate courses given at Columbia University are open to qualified majors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. Among those suitable for Barnard students the following are recommended:

**G4053x–G4054y. Changing Institutions in New Nations.**

PROFESSOR WALLERSTEIN. Th 4:10–6.

**G6047x. Political Sociology.**

PROFESSOR LINZ. Tu 10–11:50.

**G6063x. Theory and Research in Social Stratification.**

PROFESSOR BARBER. Tu 4:10–6.

**G6093x. Public Opinion Research.**

PROFESSOR HYMAN. W 10–11:50.



# SPANISH

PROFESSORS: EUGENIO FLORIT, AMELIA A. DE DEL RÍO, *Emeritus*

ASSOCIATE PROFESSORS: MARGARITA U. DA CAL (Chairman), LAURA R. DE GARCÍA-LORCA

INSTRUCTORS: VICTOR FUENTES, MIRELLA D. DE SERVODIDIO

A major in Spanish is designed to enable the student to understand, speak, and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish-American world, with a more profound knowledge of the literature and art of Spain and the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel, or the theatre, or a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13, 14; 15a–16a; 19; 21–22; and 23–24; and either 17–18; 25–26; 27–28, or a more advanced course to be chosen in consultation with the department. Courses 1–2; 3, 4; 3a, 4a, and 9, 10 do not count towards the major requirement.

Other fields: The following courses are recommended: Anthropology 4; 9; Classical Civilization 31; Art History 75, 76; French 7–8; German 55, 56; Italian W3333–3334; Philosophy 1; 43; 61, 62. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Spanish must take a placement examination before registration. The student will be tested in her knowledge of grammar and her ability to understand, speak, and write Spanish. Those who receive a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Course 5, 6 with a minimum grade of C–, or Course 5 with a minimum grade of B+.

## LANGUAGE COURSES

### 1–2. Elementary Full-Year Course. 8 points. [17]

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. PROFESSOR GARCÍA-LORCA, MR. FUENTES and MRS. SERVODIDIO. Section I M Tu W Th F 9. Section II M Tu W Th F 10. Section III M Tu W Th F 2:10.

### 3–4. Intermediate Course. 6 points. [17]

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish-American literatures. Monthly book reports on outside reading. MR. FUENTES and MRS. SERVODIDIO. Section I M W F 9. Section II M W F 1:10.

- 3a. Intermediate Course in Grammar and Composition.** 3 points. [3]  
The equivalent of Course 4 given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions on outstanding novels and poetry. Monthly book reports on outside reading. MR. FUENTES. M W F 11.
- 4a. Advanced Course in Grammar and Composition.** 3 points. [3]  
Emphasis on original composition and translation from Spanish into English and from English into Spanish. Prerequisite: Course 3a or 4. PROFESSOR DA CAL. M W F 11.
- 5, 6. Spanish through Literary Analysis.** 6 points. [17]  
Discussion in Spanish of texts, oral and written composition, reports on outside reading with emphasis on twentieth-century writers, occasional translation into English. Prerequisite: Course 3, 4 or three years of high school Spanish. PROFESSOR FLORIT and MRS. SERVODIDIO. Section I M W F 10. Section II M W F 1:10.
- 9, 10. Intermediate Spanish Conversation.** 2 points. [0]  
Open only to students taking another Spanish course, either term. MRS. SERVODIDIO. Tu 2:10.
- 11, 12. Advanced Spanish Conversation.** 2 points. [0]  
Discussion and reports on Spanish subjects. Prerequisite: Course 9, 10. Open only to students taking another Spanish course, either term. -----, Tu 3:10.
- 31, 32. Oral Spanish, Advanced Course.** 4 points. [0]  
Discussion based on contemporary Hispanic writers and literary trends, and on Spanish painters; practice in the recitation of poetry and plays. Prerequisite: Courses 3-4 or 3a, 4a, or permission of instructor. Two class hours and one conference. Autumn Term: MR. FUENTES. Spring Term: PROFESSOR DA CAL. Tu Th 3:10.

## LITERATURE COURSES<sup>1</sup>

Courses marked thus § will count towards the college requirement in literature.

- §13, 14. The Culture of the Hispanic Countries.** 6 points. [6]  
Autumn Term: The history and culture of Spain. Spring Term: The development of Spanish-American culture. Lectures and monthly book reports. Prerequisite: Course 3-4 or 5, 6. Autumn Term: PROFESSOR GARCÍA-LORCA. Spring Term: MR. FUENTES. Tu Th 9:10-10:25.
- §15-16. Introduction to Spanish Literature.** 6 points. [17]  
Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Courses

<sup>1</sup> All courses are conducted entirely in Spanish except Course 33, 34.

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3-4 or 3a, 4a, or 5, 6. PROFESSORS DA CAL, FLORIT and GARCÍA-LORCA.  
Section I M W F 10. Section II M W F 11.

**§15a-16a. Spanish Literature. 6 points. [2]**

Spanish literature from its origins to the end of the seventeenth century, with emphasis on Cervantes. Monthly reports on novels or dramas. Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15-16. This course is not divisible under any circumstances. Prerequisite: Courses 3-4 or 3a, 4a, or 5, 6. PROFESSOR DA CAL. M W F 10.

**17-18. The Spanish Drama of the Golden Age. 6 points. [3]**

Autumn Term: Reading and discussion of the medieval antecedents and the sixteenth-century theatre, including Lope de Vega. Spring Term: The theatre after Lope de Vega with emphasis on Calderón. Monthly book reports. Prerequisite: Course 15-16, 15a-16a or the written permission of the department. PROFESSOR DEL RÍO. M W F 11.

**§19. Nineteenth-Century Literature in Spain. 3 points. [17]**

Romantic drama and poetry; the realistic novel. A paper on Galdós. Prerequisite: Course 13, 14 or 15-16 or 15a-16a, or the written permission of the department. PROFESSOR DA CAL. Tu Th 3:10.

**§21, 22. Contemporary Spanish Literature. 6 points. [9]**

Autumn Term: The generation of 1898. Two written book reports on: The novelistic characters of Unamuno; the novelistic technique and style of Baroja, Valle Inclán, and Azorín. Spring Term: From the post-1898 generation to the present. Two written book reports on: Ortega y Gasset's essays as compared to Unamuno's; on any of the great poets from Juan Ramón Jiménez to García-Lorca. Prerequisite: Course 13, 14 or 15-16 or 15a-16a, or the written permission of the instructor. PROFESSOR GARCÍA-LORCA. Tu Th 2:10.

**§23-24. Spanish-American Literature. 4 points. [8]**

Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circumstances. Prerequisite: Course 13, 14 or 15-16 or 15a-16a, or the written permission of the department. PROFESSOR FLORIT. Tu Th 11.

**[§25-26. Cervantes. 6 points. PROFESSOR DEL RÍO.**

Not given in 1964-65.]

**[§27-28. Spanish Poetry. 6 points. PROFESSOR FLORIT.**

Not given in 1964-65.]

**§29, 30. Special Reading. 4 points. [10]**

Discussion on assigned reading to coordinate and supplement the work done in other courses; review of tendencies and literary movements and developments of main literary genres. Open only to seniors. MEMBERS OF THE DEPARTMENT. M W 1:10.



**33, 34. Introduction to the Literature of Spain in Relation to the Kindred Arts (in English). 4 points. [9]**

A study of representative works intended to give students with no knowledge of Spanish an idea of the originality and character of the literature of Spain, its relationship to the kindred arts and the scope of its contribution to Western culture. Autumn Term: Middle Ages and Renaissance, from the *Poem of Mio Cid* to Cervantes inclusive; Spring Term: From the baroque period to modern times, Calderón to García-Lorca. Lectures, discussions, and written reports. Conducted in English. MRS. SERVODIDIO. T Th 2:10.

**C3811x—C3812y. Latin-American Seminar. 8 points.**

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin-American Areas. PROFESSORS DE MORELOS and RABASSA. M 3:10—5.

# ZOOLOGY

PROFESSOR: JOHN A. MOORE (Chairman)

ASSISTANT PROFESSORS: LUCENA J. BARTH, PATRICIA L. DUDLEY, FREDERICK E. WARBURTON

The major program is designed to serve a variety of needs. Some students major in zoology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in zoology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend on the ultimate aims of the student, and will be planned in consultation with members of the department. The most important thing to keep in mind is that careful planning of the entire course sequence in zoology and related fields is necessary to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

Course 1–2 should be elected by those students who had a standard biology course in high school, as well as by those who have had no previous training in biology. Students who have taken either a high school course based on the BSCS curriculum, or an Advanced Placement Biology course, may with the permission of the department elect as their first course, Course 5, 6.

Chemistry 1, 8, and 41 fulfill the minimum requirements in chemistry for graduate work in zoology and for entrance into medical school, and this amount is generally regarded as the minimum for zoology majors as well. A year of general physics, 3–4, should be taken by majors who plan on graduate work or a career in medicine. Graduate work in zoology requires a knowledge of German and French (or some other modern language).

Students are encouraged to do summer work in biological laboratories. Assistance towards such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund. Consult the department for details.

The major examination in zoology consists of questions selected from a list covering many aspects of modern biology. Copies of this list may be obtained from the department.

## **1–2. General Zoology. 8 points. [1]**

An introduction to the data, methods, and philosophy of modern zoology. The development of genetic concepts, the problems of embryology, evolution, and physiology. The laboratory work consists largely of a study of vertebrates, together with some exercises on invertebrates, cell structure, genetics, embryology, and physiology. PROFESSOR MOORE, and assistants. Lec. M W F 9. Lab. (3 hours) M 1:10–4; Tu 9–11:50; 2:10–5; W 1:10–4; Th 9–11:50; 2:10–5; F 1:10–4.

## **1a–2a. General Zoology. 6 points. [1]**

Lectures identical with those of Course 1–2. No laboratory work. To follow or parallel a laboratory science. PROFESSOR MOORE. M W F 9.

**3. A Study of Biological Concepts.** 4 points. [1]

A historical survey will be made of discoveries in a specific field of biology, and these will be analyzed as examples of the manner in which scientific knowledge is accumulated. Prerequisite: Course 1-2 or special permission. PROFESSOR BARTH. Lec. W F 9. Lab. (4 hours) F 1:10-5.

**5. Genetics.** 4 points. [1]

A discussion of the inheritance, structural basis, and mode of action of genetic material. PROFESSOR WARBURTON. Lec. M W 9. Lab. (4 hours) Tu 2:10-6; W 1:10-5.

**6. Evolution.** 4 points. [1]

A consideration of the theories and data relevant to the origin and evolution of living forms, with emphasis on animals. PROFESSOR WARBURTON. Lec. M W 9. Laboratory-conferences (4 hours) W 1:10-5.

**7. Invertebrate Zoology.** 4 points. [2]

Evolution of invertebrate animals. Comparative study of microscopic and gross structure, physiology, life histories, behavior and distribution of invertebrates. Major emphasis on evolution. Some field trips to representative habitats. Prerequisite: A year of college-level zoology or biology. PROFESSOR DUDLEY. Lec. W F 10. Lab. (4 hours) M 1:10-5 or Th 2:10-6.

**8. Ecology.** 4 points. [4]

The interaction of invertebrate and vertebrate animals with their physicochemical and biological environment. Dynamics of population structure, rhythms, behavior, competition, and adaptation. Prerequisite: a year of college-level zoology or biology. PROFESSOR DUDLEY. Lec. M W F 1:10. Field trips to be arranged.

**16. General Physiology.** 5 points. [2]

The physical characteristics, chemical composition and properties of protoplasm and of cell components. Energy transformations and characteristic activities of various types of cells (muscle contraction, nerve conduction, secretion, etc.) will be discussed in detail. Prerequisite: Course 1-2; Chemistry 41. ————. Lec. M W F 10. Lab. (4 hours) M 1:10-5; Tu 2:10-6 or W 1:10-5.

**61, 62. Problems in Zoology.** [0]

Independent work will be planned to suit the needs of the student after consultation with the instructors. PROFESSORS BARTH (in charge), DUDLEY, and WARBURTON. Hours and credit by arrangement.

**72. Senior Seminar.** 2 points. [0]

Reading of literature and discussion of fundamental problems of zoology. PROFESSOR BARTH. Hours by arrangement.



## **BARNARD COLLEGE**

The following courses, which are offered by other departments, may count towards the 28 points of a zoology major. In addition, many graduate courses in zoology and botany are open to qualified seniors and these may count as part of a zoology major.

**Botany 5, 6. Cytology.**

**Botany 8. Structure and Relationships of Flowering Plants.**

**Botany G6151x. Introduction to Microbiology.**

**Botany G6152y. Advanced Microbiology.**

**Chemistry C3072y. Introduction to Biochemistry.**

## VIII. Professional Schools

Professional and graduate training is available at Columbia University in many different areas. Barnard College keeps in close touch with the Schools and the Graduate Faculties and class and major advisers give pertinent advice concerning them.

The requirements for admission vary: in some instances a Bachelor's degree is essential; in others a student is eligible after two or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Announcements may be obtained from the Secretary of Columbia University. General information concerning admission requirements of specific professional schools and certain graduate programs follows.

### THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in a professional school. To be eligible for this privilege the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

### ARCHITECTURE

The School of Architecture offers courses of study leading to the degrees of Bachelor of Architecture and Bachelor of Planning. Under normal conditions, these degrees may be obtained in four years.

The work at Barnard should include a full-year course in each of the following: English composition and literature, a foreign language (preferably French or German), mathematics, through differential and integral calculus, physics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, two years of undergraduate liberal arts study are required for admission to the School of Architecture. The courses are described in detail in the

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Bulletin of the School of Architecture. A copy may be obtained from the Office of University Admissions.

### BUSINESS

The Graduate School of Business offers a four-term course of study leading to the degree of Master of Business Administration. The School operates on a non-mandatory trimester academic schedule, thereby making possible the completion of the program in sixteen months. Advanced studies lead to the degree of Doctor of Philosophy.

The School has available, through its several programs of student aid, the means to assist all those who require marginal help to carry a full program of day time classes. Applications for the degree programs are accepted from students who are able to take advantage of continuous study on a full-time basis and who have earned the baccalaureate or its equivalent. The School has long accepted qualified female candidates for its degrees, for it is felt there are rewarding opportunities in business for women with special competence.

A limited number of special students with unique and appropriate qualifications are admitted for study without degree credit after an interview with the Assistant Dean.

### DENTAL HYGIENE

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following: English, six points; chemistry, three points; sociology, three points; psychology, three points. Applicants who lack not more than eight of the 60 credits required for admission will be considered for matriculation on condition that the eight credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination. Graduates are qualified as dental hygiene teachers and public health dental hygienists.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists' Alumnae Association of Columbia University.

### DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The prepara-



tory work at Barnard should comprise a minimum of six points each in English composition and literature, physics, zoology, inorganic and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire pre-dental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

Scholarship aid for women is available.

## ENGINEERING AND APPLIED SCIENCES

The School of Engineering and Applied Science offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, mineral, and nuclear engineering. It also offers programs in the applied sciences: applied biology, applied physics, engineering geology, engineering science in mechanical engineering, flight sciences, engineering mathematics, engineering mechanics, engineering science in chemical engineering, and nuclear engineering science. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give competence in mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those which offer a thorough foundation in the application of fundamental principles to a specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering and Applied Science. This program leads only to the degree of Bachelor of Science.

Students interested in engineering or applied science should offer at entrance to Barnard: mathematics through trigonometry, physics, and if possible, chemistry, in addition to the general admission requirements. For details the Dean of the School of Engineering and Applied Science should be consulted.

Further information about the engineering program and the advanced degrees may be obtained from the announcement of the School.

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### INTERNATIONAL AFFAIRS AND REGIONAL INSTITUTES

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one area of the world. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a superior undergraduate record and (b) a Bachelor's degree from an approved institution. Students in the School of International Affairs as well as in other graduate departments of the University may elect to take an area concentration in one of the several area institutes: East Asian Institute, Near and Middle East Institute, the Program on East Central Europe, Russian Institute, European Institute, the Program on Africa, and the Institute of Latin-American Studies.

Further information may be obtained from the Office of University Admissions.

### JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics, and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

### LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. Although there is no required pre-law curriculum, students are advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both.

Barnard College does not grant "professional option" to candidates for admission to the School of Law.

Admission is on a competitive basis. All applicants are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, Princeton, New Jersey 08540.



## LIBRARY SERVICE

The School of Library Service offers a year of graduate study leading to a Master of Science degree. Basic professional training is provided for work in college and university, public, school and special libraries. Individuals with the requisite backgrounds and interest may be admitted to "special programs" in such fields as music, law, medicine, business and economics, science, art and theology.

Candidates for admission should have a Bachelor's degree in liberal arts. An aptitude test and two years' study of a modern foreign language on the college level are among the requirements for admission. Advanced study leading to the Doctor of Library Science degree is also offered.

Additional information about careers in library science, the School's program, and admission requirements may be obtained from the School of Library Service, 516 Butler Library.

## MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory work at Barnard must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry covering at least one and one-half academic years, including a course in organic chemistry.

Before admission to the medical school, the entire pre-medical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

## NURSING

Columbia University offers a course of three academic years and two summer sessions leading to the degree of Bachelor of Science. This program is conducted on the campus of the Columbia-Presbyterian Medical Center. Preparatory work should comprise work in chemistry, biology, psychology, and sociology. Acceptance of a candidate is based on grounds of character and health as well as on fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work. The course for students who hold a Bachelor's degree is two years in length.



## BARNARD COLLEGE

### OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in Occupational Therapy leading to a Bachelor of Science degree. Two years (60 points) of acceptable college work are required for admission, including a minimum of six points in biology (including zoology), chemistry or physics; six points in psychology, and three points in sociology. The course of study is of twenty-five months' duration including two academic years and nine months of clinical experience.

A graduate program of seventeen months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of six points in biology (including zoology), chemistry or physics; six points in psychology and three points in sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a certificate.

Acceptance of a student for admission to either program is based on evidence of personal capabilities, a good record of physical health, and emotional stability.

Additional information and guidance may be obtained from the Office of Occupational and Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N. Y. 10032.

### PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must present two years (60 points) of acceptable college work, including six points in biological science, six points in physics, and six points in psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include six points each in biology, chemistry, and physics. Students who plan to practice in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers twenty-one calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, who have completed the following points in science: eight points in biological science; six points in physics; ten points in social science (of which six must be in psychology). The Faculty of Medicine awards a certificate upon satisfactory completion of this course.

Acceptance of a student for admission to either program is based on evidence of personal capability, and on health and character as well as on the fulfillment of academic requirements.

Information and guidance regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York, N. Y. 10032.

### PROGRAM IN THE ARTS

The Program in the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a course of study in a minimum of one year, leading to the degree of Master of Fine Arts (in painting, sculpture, film, radio and television).

A bulletin describing these courses is available at the Office of University Admissions.

### PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the School of Public Health and Administrative Medicine leading to the Master of Science degree in Administrative Medicine, Biostatistics, Hospital Administration, Nutrition, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students. A calendar year of administrative residency, or an equivalent experience, is required of all candidates for the degree in administrative medicine.

### SOCIAL WORK

The Columbia University School of Social Work offers a two-year course of study leading to the degree of Master of Science. An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of background and methods courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work. A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points of strictly liberal



## BARNARD COLLEGE

arts studies, 20 of which must be in the social and biological sciences, with the emphasis in the direction of the social sciences.

Admission is on a selective basis. The Announcement, giving information about the curriculum and dates for making application, may be obtained from the Director of Admission, 2 East 91st Street, New York, N. Y. 10028.

## TEACHERS COLLEGE

Teachers College, Columbia University, offers college graduates: a one-year course of study leading to the Master's degree and certification for teaching in the elementary and secondary schools; special programs for the mentally retarded and physically handicapped. The year's work at Teachers College provides for practical experience and classroom instruction.

For guidance on planning programs for teacher preparation, see Miss Josephine Mayer, Director of the Barnard Education Program, 106 Barnard Hall, or the Director of Admissions, 110 Main Hall, Teachers College.

## UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

Those applicants are selected who in the light of expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below:

- a. Bachelor of Divinity. The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.
- b. Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the



history of religions and a working knowledge of either French or German, and such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.

c. Master of Religious Education. Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated above.

d. Master of Sacred Music. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

Further information may be obtained from the Office of the Registrar, 3041 Broadway, New York, N. Y. 10027.

# IX. Fees

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise, rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

## SUMMARY OF FEES

I.	Full-time non-resident students	Each Term	Academic Year
A.	Tuition and fees <sup>1</sup> .....	\$ 775.00	\$1,550.00
	Undergraduate Association		
	Activity Fee .....	10.00	20.00
	Total .....	\$ 785.00	\$1,570.00
B.	Optional fee to participate in		
	Columbia University Student		
	Medical Plan <sup>2</sup> .....	10.00	20.00
	Total .....	\$ 795.00	\$1,590.00
II.	Full-time resident students		
	Tuition and fees <sup>1</sup> .....	\$ 775.00	\$1,550.00
	Undergraduate Association		
	Activity Fee .....	10.00	20.00
	Residence fees <sup>3</sup> .....	490.00	980.00
	Total .....	\$1,275.00	\$2,550.00

### III. Other students

Matriculated students taking less than a full schedule (that is, less than 12 points) and all non-matriculated students are required to pay the registration and medical fees each term, as well as \$60 per point for all academic work and \$5 for physical education, if this is required.

<sup>1</sup> Includes registration and medical office fees.

<sup>2</sup> This additional fee is required for all students living in Fairholm or Johnson Halls.

<sup>3</sup> Residents of Brooks, Hewitt and Helen Reid Halls, \$490 each term. Residents of 616 West 116th Street, \$240 each term. Includes room, board, laundry and required participation in Columbia University Student Medical Plan for residents of Brooks, Hewitt, and Helen Reid Halls. Includes room, laundry and required participation in CUSMP for residents of 616 West 116th Street. Board is available to any student at the term rate of \$250.

All matriculated students are also required to pay the Undergraduate Association activity fee.

Students registering in absentia for one term or for one year are required to pay a registration fee of \$15.

#### IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing academic year, students who are currently enrolled must pay a deposit of \$100 toward tuition and fee charges on or before May 15. Applicants for admission or re-admission must make this deposit at the time they signify their acceptance of admission or re-admission to the College. One-half of this deposit (\$50) will be applied to the charges of the autumn term and the remainder to the charges of the spring term. The deposit toward the term's charges is forfeited in case of a student's failure to enter, or of her withdrawal.

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the autumn term and the remainder to the charges of the spring term. The deposit toward the term's charges is forfeited in case of a failure to enter, or withdrawal.

Deposits for the use of apparatus and material required in:

Chemistry 41, 42, 51, 58, 63, 87, 88, each course . . . \$20.00

#### V. Payment of Charges and Fees

All charges and fees are payable semiannually in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by the stub of the bill) must be made by September 15 for the autumn term and by January 15 for the spring term. If payments are mailed, envelopes must be postmarked not later than September 15 or January 15 respectively. Students admitted for the autumn term after September 10 must pay their bills not later than September 25. A late payment fee of \$15 will be charged on all payments made or postmarked after midnight on the above dates.



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The privileges of the College are not available to any student who is delinquent in the payment of her charges or fees.

All charges and fees are subject to change at any time at the discretion of the Trustees.

Checks or money orders in payment of all charges and fees must be in U. S. currency, payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the autumn term or by May 1 of the spring term, if the student is to be permitted to take her examinations and receive credit for the term's work.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded).

Note: NEW YORK STATE SCHOLARS at the time of registration must file with the Bursar notice of their official award, received from Albany.

### VI. Deferred Payment

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the term until November 15 or March 15, provided that such permission is granted before September 10 (for the autumn term) or January 10 (for the spring term).

Any application for the privilege of deferred payment made after September 10 or January 10 will be subject to a late payment fee of \$5.

Where the privilege of deferred payment has been granted each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for charges and fees will become due immediately.

### VII. Adjustment of Fees

For withdrawal: If a student withdraws from the College, the following amount of fees for tuition, room and board for the term will always be retained:

Tuition and fees	\$50.00
Room and board	25.00

Up to and including the close of the first full week of classes in the term (see the Academic Calendar), the remaining tuition that the student has paid will be refunded in full. After the last day of the first full week of classes in the term, twenty per cent of the remaining tuition will be retained for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Office of the Dean of Studies.

If a student in a College residence hall withdraws from the College up to and including the last day of the first full week of classes in the term, the remaining room and board that the student has paid will be refunded in full. After the last day of the first full week of classes, ten per cent of the remaining room and board will be retained for each week, or part of a week, of the term up to the date on which the student's written notice of withdrawal is received by the Office of the Dean of Studies.

If a student has made only partial payment on her tuition or room and board, the amount of unpaid balance for each will be deducted from any withdrawal credit that is allowed. If the unpaid balance is larger than the credit allowed, the student must pay the difference.

For changing program of study: If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess, provided the alteration in her program was made on or before the last day for change of program in the term. If the new program calls for higher tuition, the student must pay the difference at the time she registers the program change.

Refunds: No refunds for board will be made for students who wish to take meals off-campus. Barnard is non-denominational and no provision can be made for special diets.

VIII. Additional Charges

Art studio fee: The fee for materials and supplies used in art laboratory work per term is ..... \$ 5.00

Tuition for courses in applied music: See departmental announcement of courses, page 117.

Tuition for technical courses in art history: See Announcement of the Program in the Arts for special fees.

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Deficiency and special examinations, payable in each case before the examination is held:

For each deficiency examination .....	5.00
For each special examination .....	10.00
(A special or deficiency examination is one taken at any time other than the conclusion of a course.)	
Late registration for academic work (see page 37) ....	15.00
Late filing of:	
Tentative program cards .....	10.00
Major blanks .....	10.00
Application for deficiency examinations .....	5.00
Application for language placement test .....	5.00

IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include: a gymnasium costume, approximately \$22; Student Government dues of \$2 for residents of Brooks, Hewitt, and Helen Reid Halls; and a minimum of \$75 per year for textbooks. Non-resident students should estimate a minimum of \$100 (\$3 weekly) for lunches, if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include: minimum allowances for transportation for non-resident students, or two round-trip coach fares from home to college for resident students; clothes (\$150); incidentals (\$150-\$200).

X. Medical Plan

Campus medical service is available to all students and is covered by the comprehensive charge payable each term. Medical examinations are required for freshmen and seniors. (Students will not be allowed to register for the succeeding term until they have had the required medical examination. The final date for completion of the examination by the College Physician is December 15 for seniors; for freshmen May 15.)

The fees for residents of Brooks, Hewitt, and Helen Reid Halls, and of 616 West 116th Street also include required participation in the Columbia University Student Medical Plan during the academic year. Students living in Fairholm or Johnson Hall are required to participate in the CUSMP and must pay an addi-



tional fee of \$10 each term for this service. Non-resident students living at home may also participate in this plan by paying the additional \$10 fee each term. The CUSMP entitles the student to the following services:

A. Barnard College Medical Office: Medical treatments for conditions not requiring bed care; admittance to the Columbia University Infirmary.

B. Columbia University Medical Office: Consultation with specialists; surgical treatment of minor surgical conditions; laboratory and X-ray studies as deemed advisable. All students must be referred by the Barnard College Physician.

Not provided: Dental care; fitting and provision of glasses; house calls.

C. Columbia University Infirmary: Bed care for ten days a term will be provided without charge.

D. St. Luke's Hospital: For more acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital will be available each term. In practically all situations when additional bed care is needed, it can be spent in convalescence in the infirmary.

## XI. Insurance for Foreign Students

Foreign students who are not residing in the United States with members of their families are required to participate in the Columbia University Student Medical Plan described above and the Accident and Sickness Insurance Plan. The fee of \$10 each term for the former (CUSMP) will be included in the bill of all students living in the Barnard residence halls. The Accident and Sickness Insurance Plan fee of \$42 a calendar year is payable to the Insurance Company of North America. Full information concerning this policy will be mailed to the student with her college bill.

## XII. Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of \$62.88. See the Bursar's Office for complete details.

## XIII. Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

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To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U. S. Post Office will cash upon presentation of the Bursar's receipt. A Bursar's receipt is issued when a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank New York Trust Company  
Broadway and 113th Street, New York, N. Y. 10025

First National City Bank of New York  
Broadway and 111th Street, New York, N. Y. 10025

American-Irving Savings Bank  
Broadway and 111th Street, New York, N. Y. 10025

## X. Financial Aid

In so far as possible, the College helps qualified students who have financial need. In effect, every student at Barnard receives some financial aid from past donors, since the College fees do not cover the entire cost of her education today. The balance is made up by endowment income and gifts. In addition to grants and loans, opportunities for part-time employment are provided to open Barnard's doors to girls of superior talent from all sections of the country. (See Placement Office, page 45.) Students are urged to investigate state aid programs and college tuition financing plans offered by local banks and insurance companies.

### ANNUAL AWARDS

Loans or combination grant-and-loan awards are made by the Committee on Financial Aid to full-time students of high scholarly ability, excellent character, and promise of future accomplishment. *The College shall be the sole judge of the financial aid to be granted, and may at any time withdraw or discontinue such aid.* The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the College Scholarship Service forms.
2. The amount available from other sources, such as the New York State Regents' Scholarships.
3. The student's savings distributed over a four-year period.
4. The student's summer earnings (at least \$200 for freshmen and \$300 for sophomores, juniors and seniors).
5. After the freshman year, the student's earnings from part-time work during the academic year (\$200).

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 165.

Awards are for one year only. Students in good standing are eligible to apply for further assistance in subsequent years.

Applications for financial aid for entering students may be obtained from the Admissions Office and should be returned to that office on or before February 15. The student applies in terms of financial need, not for any one of the specific scholarships listed in the following pages.

Entering students who are applying for aid must also file a financial



## BARNARD COLLEGE

statement with the College Scholarship Service, Box 176, Princeton, New Jersey 08540, or Box 1025, Berkeley, California 94701, not later than February 15 of the senior year in high school. Forms may be obtained from the school or they will be sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Applicants are notified of awards at the time they receive their notice of admission to the college.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a non-competitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

**STUDENTS IN COLLEGE:** Students in college who are in need of financial aid and are academically qualified must file applications on special forms obtainable in the Office of the Dean of Studies. Applications must be filed on or before February 5, 1965.

Applicants will be notified as soon as awards are made. Recipients are requested to inform the Dean of Studies immediately, in writing, of their plans with respect to the funds assigned to them.

## LOAN FUNDS

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld '08.

These funds are administered by the Faculty Committee on Financial Aid. Loans are regularly assigned to upperclassmen as part of their financial aid award; the maximum loan per year is \$500. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness totalling \$300 or more is repaid in semi-annual installments of \$150 each. Interest is charged from the first day of the month after graduation at the rate of three per cent per annum.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not to exceed \$500 are granted upon application to the Chairman of the Committee on Financial Aid to any deserving undergraduates, other than freshmen, who are in need of temporary emergency assistance. Loans are granted for short terms, no longer than a year from the date of issue.

A list of scholarship funds established by gifts, endowment, or in trust follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

## SCHOLARSHIP FUNDS—UNRESTRICTED<sup>1</sup>

ALUMNAE SCHOLARSHIP FUND (1922). A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. Approximately \$14,900.

ANNA E. BARNARD SCHOLARSHIP FUND (1899). In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

BARNARD COLLEGE CLUB OF NORTH CENTRAL NEW JERSEY SCHOLARSHIP (1962). A variable stipend awarded annually at the discretion of the Faculty Committee on Financial Aid from the proceeds of the North Central New Jersey Club's fund-raising activities.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND (1950). In honor of Ruth Marshall Billikopf '19. \$5,000.

VARIAN WHITE BLUMBERG SCHOLARSHIP FUND (1952). From the estate of Varian White Blumberg '13. \$5,000.

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND (1913). By bequest of Annie P. Burgess. \$10,000.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND (1932). In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

BREARLEY SCHOOL SCHOLARSHIP FUND (1889). By pupils and former pupils of the Brearley School. \$3,000.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND (1915). In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

ARTHUR BROOKS FUND (1897). By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

THOMAS F. CLARK STUDENTS' LOAN FUND (1928). By bequest of Mrs. Fanny Foster Clark. \$100,000.

<sup>1</sup> Figures compiled as of January 1, 1964.

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JENNIE B. CLARKSON SCHOLARSHIP FUND (1898). By Mrs. W. R. Clarkson. \$3,000.

CLASS OF 1921 SCHOLARSHIP FUND (1931). A tenth reunion gift by the Class of 1921. \$2,500.

CLASS OF 1954 SCHOLARSHIP FUND (1955). A fifth reunion gift of the Class of 1954. \$4,584.

VERA B. DAVID SCHOLARSHIPS (1962). Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

ADA M. DONELLE SCHOLARSHIP FUND (1948). By bequest of Mrs. Ada M. Donelle. \$121,751.

FISKE SCHOLARSHIP FUND (1895). By Mrs. Martha T. Fiske-Collord. \$5,000.

GALWAY FUND (1912). By an anonymous donor. \$2,400.

IRMA ALEXANDER GOLDFRANK FUND (1919). In memory of Irma Alexander Goldfrank '08, by her friends. \$2,105.

GRAHAM SCHOOL SCHOLARSHIP FUND (1907). By the Graham Alumnae Association. \$7,300.

LOUISE H. GREGORY SCHOLARSHIP FUND (1955). From gifts in memory of Louise H. Gregory. \$4,497.

HARKNESS SCHOLARSHIP FUND (1939). With a gift from Edward S. Harkness. \$100,000.

CHARLES EVANS HUGHES SCHOLARSHIP FUND (1952). By bequest of Charles Evans Hughes. \$14,300.

LILY MURRAY JONES SCHOLARSHIP FUND (1950). In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

AUGUSTA LARNED SCHOLARSHIP FUND (1924). By bequest of Augusta Larned. \$10,000.

JOAN SPERLING LEWINSON SCHOLARSHIP FUND (1955). With a gift from Joan Sperling Lewinson '13. \$24,427.60.

JUDITH LEWITTES SCHOLARSHIP FUND (1957). In memory of Judith Lewittes '55, by her family and friends. \$4,979.

ANNE ELIZABETH LINCOLN SCHOLARSHIP FUND (1963). From the estate of Anne Elizabeth Lincoln '24. \$8,441.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate Awards, page 182.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND (1947). From the estate of Grace Farrant Luby '93. \$5,000.

CECILE LEHMAN MAYER SCHOLARSHIP FUND (1962). With a gift from Mr. and Mrs. Paul Mazur, the income to be awarded annually for financial aid to a maximum of four or fewer students. \$25,000.



## FINANCIAL AID

MEMORIAL SCHOLARSHIP FUND (1954). To receive contributions in memory of deceased alumnae and friends. \$22,189.

WILLIAM MOIR SCHOLARSHIP FUND (1912). In memory of William Moir by his wife. \$10,000.

CAROLINE CHURCH MURRAY FUND (1918). In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND (1947). From the estate of Frederick Nathan. \$3,000.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND (1940). In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

M. GLADYS QUINBY SCHOLARSHIP FUND (1961). By bequest of M. Gladys Quinby '08 and gifts of friends. \$4,887.

PETER C. RITCHIE, JR. SCHOLARSHIP FUND (1937). By bequest of Virginia J. Ritchie. \$4,400.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND (1950). In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$23,300.

EDNA HELLER SACHS SCHOLARSHIP FUND (1955). With a gift from Edna Heller Sachs '10. \$10,000.

ELEANOR BUTLER SANDERS SCHOLARSHIP FUND (1922). By bequest of Henry M. Sanders. \$10,250.

ANNA M. SANDHAM SCHOLARSHIP FUND (1922). By bequest of Anna M. Sandham to Columbia University. \$10,000.

SCHMITT-KANEFENT SCHOLARSHIP FUND (1931). By bequest of Catherine Schmitt. \$7,100.

SCHOLARSHIP FUND (1901). By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$12,000.

KATHERINE FLINT SHADEK SCHOLARSHIP FUND (1961). By Katherine Flint Shadek '44. \$10,920.

EMILY JAMES SMITH SCHOLARSHIP FUND (1899). In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

GEORGE W. SMITH SCHOLARSHIP FUND (1906). In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

EDNA PHILLIPS STERN SCHOLARSHIP FUND (1952). In memory of Edna Phillips Stern '09, by her family and friends. \$20,797.

ISABEL GREENBAUM STONE SCHOLARSHIP FUND (1957). In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$10,565.

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SOLON E. SUMMERFIELD FOUNDATION SCHOLARSHIP FUND (1960). A gift from the Solon E. Summerfield Foundation. \$4,000.

VELTIN SCHOOL SCHOLARSHIP FUND (1905). By the alumnae of Mlle. Veltin's School. \$3,000.

ALMA F. WALLACH SCHOLARSHIP FUND (1951). In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

ELLA WEED SCHOLARSHIP FUND (1895). In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,600.

HYMEN WERNER SCHOLARSHIP FUND (1953). In memory of her husband, Hymen Werner, by Helen Frankfield Werner '06. \$4,500.

### SCHOLARSHIP FUNDS—RESTRICTED<sup>1</sup>

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND (1916). By Mrs. James Herman Aldrich to assist in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND (1952). For a Barnard student whose home is outside the area of the City of New York. Approximately \$23,650.

BARNARD-IN-WESTCHESTER ENDOWMENT FUND (1962). By the Barnard College Club of Westchester County. For scholarships, preferably for students from Westchester County. \$4,622.

BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND (1916). By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND (1936). In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,634.

IRVING BERLIN SCHOLARSHIP FUND (1950). By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

IDA BLAIR MEMORIAL FUND (1937). In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND (1930). In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

WILLIAM TENNEY BREWSTER AND ANNA RICHARDS BREWSTER FUND (1961). By bequest of William Tenney Brewster. To be awarded preferably in amounts not less

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<sup>1</sup> Figures compiled as of January 1, 1964.

than \$1,000, with priority to daughters of professional people educated in independent schools. \$166,600.

**BROOKLYN SCHOLARSHIPS (1895).** By the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school. Twelve at \$150 each.

**ANNE BROWN ENDOWMENT SCHOLARSHIP FUND (1939).** In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

**CARPENTIER RESIDENCE SCHOLARSHIP FUND (1919).** By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

**ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND (1901).** By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

**MRS. HENRY CLARKE COE SCHOLARSHIP FUND (1910).** By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

**CLASS OF 1919 DECENNIAL FUND (1929).** A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

**AUGUSTA SALIK DUBLIN SCHOLARSHIP FUND (1960).** In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,100.

**ENGLISH SCHOLARSHIP FUND (1920).** By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

**GLADYS RENSHAW ESTERBROOK SCHOLARSHIP FUND (1958).** In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

**MARTHA T. FISKE SCHOLARSHIP FUND (1911).** In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

**FOOD FAIR SCHOLARSHIP (1954).** By the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.



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HELEN JENKINS GEER SCHOLARSHIP FUND (1940). In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND (1937). In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

EMMA HERTZOG SCHOLARSHIP FUND (1904). With gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

MARION ALICE HOEY FUND (1944). In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

LILLIA BABBITT HYDE SCHOLARSHIP FUND (1953). By the Lillia Babbitt Hyde Foundation. Awarded to pre-medical students. \$25,000.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND (1928). In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers. \$5,000.

JOINT INDUSTRY BOARD OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS (1951). By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

MARY E. LARKIN JOLINE SCHOLARSHIP FUND (1927). By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

WERNER JOSTEN SCHOLARSHIP FUND (1955). With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,900.

JESSIE KAUFMANN SCHOLARSHIP FUND (1902). In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

KIMBALL FELLOWSHIP FUND (1938). By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,800.

ELEANOR KINNICUTT SCHOLARSHIP FUND (1911). In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND (1953). In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing

graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the Department be awarded to a student who is majoring in Spanish. \$15,377.

EUGENE F. AND MINNIE GOUGER MC GOWAN SCHOLARSHIP FUND (1955). By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

FANNIE MOULTON MC LANE SCHOLARSHIP FUND (1961). By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference given to those, if any, who satisfactorily establish that they are of colonial or revolutionary ancestry, or the descendants of a civil war soldier. \$7,500.

MRS. DONALD MC LEAN SCHOLARSHIP FUND (1906). By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

FERRY STARR MORGAN SCHOLARSHIP FUND (1959). In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

MARY BARSTOW POPE SCHOLARSHIP FUND (1913). In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

PUBLIC SERVICE SCHOLARSHIP FUND (1934). By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

LUCILLE PULITZER SCHOLARSHIP FUND (1899). In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,450.

AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND (1955). In honor of Amelia de del Río, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Río's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the Department, be awarded to a student who is majoring in Spanish. \$21,333.



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FELIX ST. GEORGE SCHOLARSHIP (1955). In memory of her father Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose subject of interest is a science or pre-medical course, more particularly physics, chemistry, or biology. \$7,450.

FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND (1955). In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

EMMA A. TILLOTSON SCHOLARSHIP FUND (1910). By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CLARA BUTTENWIESER UNGER MEMORIAL FUND (1938). In memory of his daughter, Clara Buttenwieser Unger '13, by Joseph L. Buttenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND (1934). In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

GERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND (1953). By Charles Webb. Awarded to a student nominated by the Department of History. \$5,000.

ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND (1940). By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

## SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP (1944). A tuition scholarship, with variable stipend. Awarded annually to a student from Brooklyn.

THE BARNARD COLLEGE CLUB OF DETROIT SCHOLARSHIP (1958). A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

FAIRFIELD COUNTY SCHOLARSHIP (1962). Awarded preferably to entering freshmen from Fairfield County for one year only.

ARLENE HERSHEY MEMORIAL SCHOLARSHIP (1964). A scholarship with variable stipend awarded annually to a senior in the Education Program.

HOLLAND DAMES SCHOLARSHIP (1915). In honor of Fanny I. Helmuth, by the Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

THRIFT SHOP SCHOLARSHIPS (1938). Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N. Y. 10022.



## XI. Honors

The following funds were established to honor those who have shown exceptional promise of distinction in their chosen line of work. Students do not apply for these fellowships and scholarships; they are awarded on an honorary basis. The income from these funds is awarded each year, unless otherwise stated.

### GRADUATE FELLOWSHIPS

**DOROTHY ALLEN FELLOWSHIP (1948).** Given on recommendation of the Department of Mathematics to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career and the student's plans for her future will be among the factors given consideration in making the selection. A needy student shall receive the entire sum towards tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year. An award of \$800.

**ASSOCIATE ALUMNAE OF BARNARD COLLEGE GRADUATE FELLOWSHIP (1963).** To be awarded annually to a graduate who shows exceptional promise in her chosen field of work. \$40,000.

**GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND (1930).** By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

**GRACE POTTER RICE FELLOWSHIP FUND (1935).** In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. \$24,000.

**THE HERBERT MAULE RICHARDS FUND (1933).** In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from

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1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

### GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND (1936). By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$17,000.

WILLIAM MASON SCHOLARSHIP (1928). The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. \$500.

MARGARET MEYER GRADUATE SCHOLARSHIP FUND (1952). In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

### GRADUATE PRIZES

FRANK GILBERT BRYSON PRIZE (1931). In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. Awarded by vote of her class to a senior who has given conspicuous evidence of unselfishness, and who in the opinion of the class has made the greatest contribution to Barnard during her college career. Income on \$3,000.

DEAN PRIZE IN GERMAN (1925). By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

CLARA L. FROELICH MATHEMATICS PRIZE (1962). By Clara L. Froelich '15. Awarded annually by the Department of Mathematics to a member of the graduating class whose work in mathematics has revealed superior ability in grasping the concepts of the subject and has been distinguished by thoughtful devotion to fundamental ideas rather than to the mere mastering of techniques. \$200.

KOHN MATHEMATICAL PRIZE (1892). By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

### UNDERGRADUATE AWARDS<sup>1</sup>

The income from prize funds is awarded each year.

ESTELLE M. ALLISON PRIZE FUND (1937). By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. \$1,000.

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<sup>1</sup> Figures compiled as of January 1, 1964.

MARY E. ALLISON PRIZE FUND (1937). In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. \$1,000.

THE AMERICAN STATISTICAL ASSOCIATION PRIZE, NEW YORK AREA CHAPTER (1960). Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND (1927). In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. The income is to be awarded by the Department of Zoology for work at a biological laboratory offering summer courses. \$1,640.

BORDEN FRESHMAN PRIZE (1962). A prize of \$200 awarded to the freshman who carries a full academic program throughout the year and receives the highest average in her class. In the event of a tie it will be awarded to the student whose program was the heaviest. During the autumn immediately following, the winner will be announced and the prize awarded, regardless of whether or not she returns to Barnard. \$1,000 from the Borden Company Foundation.

EUGENE H. BYRNE HISTORY PRIZE FUND (1960). In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. \$3,604.

THE COLUMBIA UNIVERSITY PRESS PRIZE. A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

THE JENNY A. GERARD MEDAL (1908). The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the student who is most proficient in Colonial history.

GERMAN PRIZE FUND (1950). Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$12,000.

HERRMAN BOTANICAL PRIZE FUND (1892). Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in botany. \$1,000.

MEDAL OF THE HISPANIC INSTITUTE IN THE UNITED STATES. Awarded to an undergraduate for the best essay on Cervantes.

FRÉDÉRIC G. HOFFHERR FRENCH PRIZE FUND (1961). In memory of Frédéric G. Hoffherr, Associate Professor of French from 1936 to 1955. The income is awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a ten-minute disquisition. Candidates must have pursued French courses continuously during their Barnard career. \$1,025.



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THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING. A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the Chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the Chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

AMY LOVEMAN MEMORIAL FUND (1956). In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,099.

THE LENORE MARSHALL PRIZES FOR WRITING (1960). For excellence in poetry and prose contributed to the undergraduate magazine, *Focus*. Adjudged by the donor, Mrs. Marshall, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$50 each.

SIDNEY MINER POETRY PRIZE FUND (1962). In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry: the judges to be members of the Department of English. \$5,000.

THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND (1949). By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. \$4,236.

THE HELEN PRINCE MEMORIAL PRIZE FUND (1921). In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. \$1,200.

KATHARINE E. PROVOST MEMORIAL PRIZE FUND (1949). In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. \$1,000.

CAROLINE CALLUP REED PRIZE FUND (1916). In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of special study in the subject of the origin of Christianity and early church history. Awarded to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. \$1,000.

MARIE REIMER SCHOLARSHIP FUND (1953). In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded at the end of her junior year to an out-

standing student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year. \$4,970.

ANGELA DE SALVO SCOLA MEMORIAL PRIZE. In memory of Angela De Salvo Scola '31, by the Barnard College Club of Springfield, Massachusetts. To be awarded annually from 1961 through 1966 by representatives of each of the romance language departments to a junior for excellence in at least two romance languages. \$50.

SYLVIA KOPALD SELEKMAN PRIZE FUND (1960). In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. \$500.

SPANISH PRIZE. To be awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in the Spanish language and literature. A prize of \$100, the income on the Spanish Prize Fund of \$2,500.

SPERANZA ITALIAN PRIZE FUND (1911). In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. \$1,000.

JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND (1917). In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. \$1,250.

VON WAHL PRIZE (1915). In memory of Constance von Wahl '12, President of the Undergraduate Association. Awarded to a student for excellence in zoology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. \$1,300.

The following prizes of Columbia University are by their terms open to students of Barnard College:

THE ACADEMY OF AMERICAN POETS PRIZE. A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the spring term. Manuscripts should be submitted prior to March 15. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the spring term. The subject for 1964-65 is: Any topic dealing with the domestic or foreign policy of the United States selected in connection with seminar work in one of the social science departments and approved by the Chairman of the Bennett Prize Committee. For additional information consult Professor Richard E. Neustadt.



## BARNARD COLLEGE

**THE BUNNER MEDAL.** The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult Professor Quentin Anderson.

**EARLE PRIZE IN CLASSICS.** A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor Thomas Suits.

**THE CAROLINE PHELPS STOKES PRIZE.** The Caroline Phelps Stokes Prize of about \$45 is awarded at Commencement to that student who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult Professor Richard E. Neustadt.

**VAN RENSSELAER PRIZE.** To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult Professor Frederick W. Dupee.

**WOODBERRY PRIZE.** Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1964-65. Value of prize about \$100. For additional details consult the Chairman of the Department of English and Comparative Literature.

The following prize is also open to Barnard Students:

**SUSAN HUNTINGTON VERNON PRIZE.** A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.



## XII. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of over thirteen thousand members from all states of the Union and more than sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. Students who are considering Barnard may find it helpful to talk personally with the Barnard alumnae living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

### OFFICERS OF THE ASSOCIATE ALUMNAE

MRS. EDWARD PELZ, President

MRS. LEWIS GOLDENHEIM, Vice-President

MRS. JOHN F. DOOLING, JR., Vice-President

MRS. DUDLEY F. ROCHESTER, Secretary

MISS MARY A. BLISS, Executive Secretary

### DIRECTORS

MRS. EDWARD H. AUCHINCLOSS

MRS. HENRY C. BARKHORN, JR.

MRS. MORRIS E. BIEDERMAN

MISS LOIS E. CAMPAINÉ

MRS. RICHARD V. GOODWIN, JR.

MRS. SEYMOUR GRAUBARD

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MRS. BERNARD SCHWARTZ

MISS NORA E. SCOTT

MISS JOSEPHINE SKINNER

MISS EDITH I. SPIVACK

### ALUMNAE TRUSTEES

MISS FRANCES MARLATT

MRS. EDWARD PELZ

MRS. WALT W. ROSTOW

MRS. WILLIAM P. WHITE

# BARNARD COLLEGE

## ALUMNAE REPRESENTATIVES

### ARIZONA

- |           |   |
|-----------|---|
| Flagstaff | — MISS MARGARET CARRIGAN<br>616 West Whipple Road |
| Phoenix   | — MRS. A. PRESBY COLBURN<br>1023 East Palo Verde  |
| Tucson    | — MRS. HERMAN N. SLOSS<br>5325 East Baker Street  |

### ARKANSAS

- |             |  |
|-------------|--|
| Hot Springs | — MRS. CHARLES E. GARRATT<br>717 Prospect Avenue |
| Little Rock | — MRS. NORMAN HOLCOMB<br>2903 North Pierce       |

### CALIFORNIA

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|------------------|---|
| Bakersfield      | — MRS. JOHN C. ANDERSON<br>204 Fairway Drive    |
| Berkeley         | — MRS. ROBERT H. SCHWAAR<br>116 Hill Road       |
| Carmel           | — MRS. TALCOTT BATES<br>Route 3, Box 575        |
| Del Mar          | — MRS. DOUGLAS M. FOUQUET<br>1540 Forest Way    |
| Fair Oaks        | — MRS. ROBERT BRADBURY<br>4617 Minnesota Avenue |
| Fullerton        | — MRS. JOHN HADEN PITTS<br>1811 Skyline Way     |
| Hacienda Heights | — MRS. ERNST E. ERSELIUS<br>15982 Atitlan Drive |
| Menlo Park       | — MISS PATRICIA SHANAHAN<br>934A Alice Lane     |
| Monterey         | — MRS. WERNER SEWALD<br>40 Via Cimarron         |
| Pasadena         | — MRS. NATHAN PATIGALIA<br>285 Glenullen Drive  |
| Rancho Cordova   | — MRS. THOMAS BAILEY<br>2536 Ribier Way         |
| San Francisco    | — MRS. MAX SEMEL<br>93 Rockaway Avenue          |
| Santa Barbara    | — MRS. J. SAMUEL RUGG<br>1135 Oriole Road       |

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- Boulder — MRS. CARL C. ZIER  
2235 Glenwood Drive
- Denver — MRS. CARL E. FEHRENBACH  
3232 South Josephine Street

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100 Putnam Avenue
- Hartford — MRS. NORMAN RUUD  
240 Kenyon Street
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Weston Road

### DELAWARE

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106 Gibson Avenue

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- Coral Gables — MRS. WILLARD R. BROWN  
3720 Harlano Street
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2225 Limoges Drive

### GEORGIA

- Atlanta — MRS. J. LESTER FRASER  
4007 Club Drive, N.E.

### HAWAII

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208 Denvale Drive
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Kansas City — MRS. ROBERT W. HAMILTON  
3229 West 43 Avenue

Lawrence — MRS. THOMAS R. SMITH  
4 Westwood Road

Topeka — MRS. J. RICHARD FOTH  
4011 West 29 Street

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358 North Fountain Road

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479 Audubon Street

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69 Melbourne Avenue S.E.
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7151 Cambridge

### MONTANA

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208 North 11 Street

### NEBRASKA

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2506 South 95 Street

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103 Skyline Drive
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| Milwaukee | — MRS. DWIGHT L. BAKER<br>439 North 50 Street |

# XIII. Statistics

	1889 to 1890	1899 to 1900	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1954 to 1955	1959 to 1960	1960 to 1961	1961 to 1962	1962 to 1963	1963 to 1964
UNDERGRADUATES, REGULAR:																	
Seniors .....	....	40	62	*123	87	*126	227	*181	*164	*208	*260	245	325	*311	*345	360	390
Juniors .....	....	40	122	110	190	259	237	220	191	314	277	340	356	381	390	428	381
Sophomores .....	....	37	109	191	193	234	247	226	210	314	272	317	352	387	417	387	405
Freshmen .....	14	54	188	240	224	271	311	267	246	324	271	304	385	364	355	350	349
Unclassified students .....	....	....	....	....	....	57	54	103	143	56	17	1	9	13	16	12	15
	14	171	481	664	694	947	1076	997	954	1216	1097	1207	1427	1456	1523	1537	1540
SPECIAL STUDENTS:																	
Matriculated .....	....	21	24	32	39	....	....	....	....	....	....	....	....	....	....	....	....
Nonmatriculated .....	....	....	30	32	22	33	28	29	31	21	15	20	28	24	26	18	25
Departmental (1889-1896) .....	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Music students .....	....	41	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....
(1896-1904, 1914-1915) .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	22	62	54	69	61	33	28	29	31	21	15	20	28	24	26	18	25
GRADUATE STUDENTS (1890-1900) ..	....	82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
TOTAL REGISTRATION .....	36	315	535	733	755	980	1104	1026	985	1237	1112	1227	1455	1480	1549	1555	1565
DEGREES CONFERRED:																	
A.B. ....	....	39	88	141	139	198	247	221	206	270	303	258	347	312	356	383	....
B.S. (1909-1918) .....	....	18	2	8	5	....	....	....	....	....	....	....	....	....	....	....	....
A.M. (1898-1900) .....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TOTAL BACHELOR'S DEGREES: CONFERRED 1893-1963, A.B., 13,271, B.S., 77.

\* The figures for seniors include students counting the first year in a professional school in place of the fourth year at Barnard as follows:

1913-15 21 in Education

1916-61 4 in Architecture

2 in Business

10 in Journalism

18 in Law

21 in Medicine

1961-62 1 in Engineering

1962-63 1 in Engineering

1 in Medicine

## XIV. Examination Groups

Courses are arranged in examination groups to avoid conflicts on the examination schedule. Groups are indicated by Arabic boldface numerals in brackets following the course title. Group **0** includes courses which ordinarily do not have final examinations. No student may elect two courses in the same examination group (except Group **0**), *unless she files in the Registrar's office with her official program a written statement from one or the other instructor that she will be given a special examination.*

### **Group [1]      M W F 9**

Chemistry 2; 2a  
Economics 17, 18  
English 41, 42 (I)  
English 51  
English 53x  
English 76  
French 7x  
Government 11, 12  
History 37, 38  
Mathematics 15x, 15y  
Mathematics 16x, 16y  
Philosophy 1x, 1y (I)  
Psychology 18, 18a  
Religion 14  
Zoology 1–2; 1a–2a  
Zoology 3  
Zoology 5  
Zoology 6

### **Group [2]      M W F 10**

Art History 64  
Botany 5, 6  
Chemistry 55, 56  
Economics 1–2 (I)  
Economics 27; 28  
English 66  
English 69; 70  
English 82  
French 9–10  
Geology 1; 2  
Government 9; 10  
History 23; 24  
Latin 3; 4  
Mathematics 7, 8  
Mathematics 25x  
Music 1–2 (I)  
Philosophy 1x, 1y (II)  
Philosophy 61, 62  
Psychology 9

Psychology 12, 12a  
Psychology 25  
Sociology 21–22  
Spanish 15a–16a  
Zoology 7  
Zoology 16

### **Group [3]      M W F 11**

Anthropology 1, 2  
Art History 91, 92  
Chemistry 41; 42  
Economics 1 (II)  
Economics 16; 23  
English 63  
French 23, 24  
Government 1, 2  
Government 31, 32  
Greek 11; 12  
History 9–10  
Mathematics 26x  
Music 1–2 (II)  
Philosophy 1x, 1y (III)  
Philosophy 43  
Psychology 27, 27a  
Psychology 30, 30a  
Sociology 31  
Spanish 3a; 4a  
Spanish 17–18  
Zoology 16

### **Group [4]      M W F 1:10**

Anthropology 8  
Art History 43, 44  
Chemistry 63  
Economics 1–2 (IV); 5, 6  
English 41, 42 (II)  
English 41y  
English 67, 68  
Government 15, 16  
Latin 1–2



## BARNARD COLLEGE

Latin 11; 12  
Philosophy 4; 5  
Philosophy 84  
Psychology 21  
Psychology 23, 23a  
Russian 5, 6  
Sociology 33  
Zoology 8

### **Group [5]      M W F 2:10**

Anthropology 3; 4  
Art History 51, 52  
Botany 10  
Chemistry 99  
Economics 25, 26  
English 71  
English 77; 78  
English 88  
Geology 19  
German 45, 46  
Government 17  
Government 20  
Greek 1—2  
History 33, 34  
History 45, 46  
Philosophy 76  
Russian 3—4

### **Group [6]      Tu Th 9**

Botany 1—2; 1a—2a  
German 35

Tu Th 9:10—10:25

Chemistry 1; 1a  
Chemistry 8; 51  
English 79, 80  
French 27, 28  
Government 25, 26  
History 25  
History 29  
Philosophy 7  
Philosophy 22  
Psychology 15  
Psychology 38  
Religion 15, 16  
Spanish 13, 14

### **Group [7]      Tu Th 10:35—11:50**

Anthropology 5—6  
Art History 68  
Art History 75, 76  
Art History 83  
Chemistry 85  
Classical Civilization 31  
Economics 30; 31  
English 55, 56

English 84  
French 34  
Geography 1, 2  
Geography 3, 4  
German 28  
Government 27, 28  
History 11, 12  
History 55, 56  
Philosophy 1x, 1y (IV)  
Philosophy 26  
Philosophy 41  
Sociology 43, 44

### **Group [8]      Tu Th 11**

English 73, 74  
Psychology 5, 5a  
Psychology 8, 8a  
Psychology 57  
Psychology 68  
Spanish 23—24  
Zoology 14

### **Group [9]      Tu Th 2:10**

Art History 1—2  
Art History 65; 66  
Spanish 33, 34

Tu Th 2:10—3:25

Anthropology 19; 20  
Education 3—4  
English 41, 42 (III)  
English 64  
English 85  
English 86  
French 29  
German 55, 56  
History 7—8  
History 53—54  
Physics 3—4  
Religion 25, 26  
Sociology 41, 42  
Spanish 21, 22

### **Group [10]      M W F 3:10**

Mathematics 56  
Mathematics 61  
Sociology 39  
Sociology 97y

### **Group [11]**

Psychology 1x or 1y (Sections)

### **Group [12]**

Art History 97—98  
English 54  
English 87  
Hygiene 1

## EXAMINATION GROUPS

### Group [13]

Art History 81  
Economics 1–2 (III)  
Geography 17  
Recreational Leadership 1

### Group [14]

French 1–2 (Sections)  
French 3, 4; 4x (Sections)  
French 5, 6; 5y, 6x (Sections)  
French 7–8 (Sections)

### Group [15]

German 1–2 (Sections)  
German 3, 4 (Sections)  
German 5, 6 (Sections)  
Russian 1–2 (Sections)

### Group [16]

History 1–2 (Sections)

### Group [17]

Spanish 1–2 (Sections)  
Spanish 3, 4 (Sections)  
Spanish 5, 6 (Sections)  
Spanish 15–16 (Sections)  
Spanish 19

### Group [18]

Sociology 1–2 (Sections)

## Group [0]

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Studies 1, 2  
American Studies 3, 4  
Anthropology 51, 52  
Anthropology 53, 54  
Botany 11, 12  
British Civilization 81–82  
Chemistry 58  
Chemistry 87, 88  
Economics 51–52  
Economics 61, 62  
English A1–A2 (Sections)  
English 3, 4  
English 5, 6  
English 7, 8  
English 13, 14  
English 19x (19y)  
English 21, 22; 21y  
English 23, 24  
English 27, 28  
English 33, 34  
English 91, 92  
English 93 (93y)  
English 97, 98 (98x, 97y)  
French 11, 12  
French 13; 14  
French 15, 16  
French 17–18

French 37–38  
French 39–40  
Geography 59, 60  
Geology 60  
German 7, 8  
German 9, 10  
German 61, 62  
Government 45, 46  
Government 61–62  
Greek 61–62  
History 71–72  
History 81–82  
History 83, 84  
Latin 61–62  
Philosophy 63, 64  
Philosophy 65–66  
Psychology 48x, 48y  
Religion 35, 36  
Russian 9, 10  
Sociology 38  
Sociology 98  
Spanish 9, 10  
Spanish 11, 12  
Spanish 29, 30  
Spanish 31, 32  
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# BEQUEST FORM

## *General*

I, ....., give and bequeath to Barnard College in the City of New York the sum of.....for the uses and purposes of the said Corporation.

## *Endowment*

I, ....., give and bequeath to Barnard College in the City of New York the sum of.....to be added to the General Endowment of the said Corporation.

## *For a Specific Purpose*

I, ....., give and bequeath to Barnard College in the City of New York the sum of.....to be used for the purposes of .....  
.....  
to be known as the .....Fund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.











